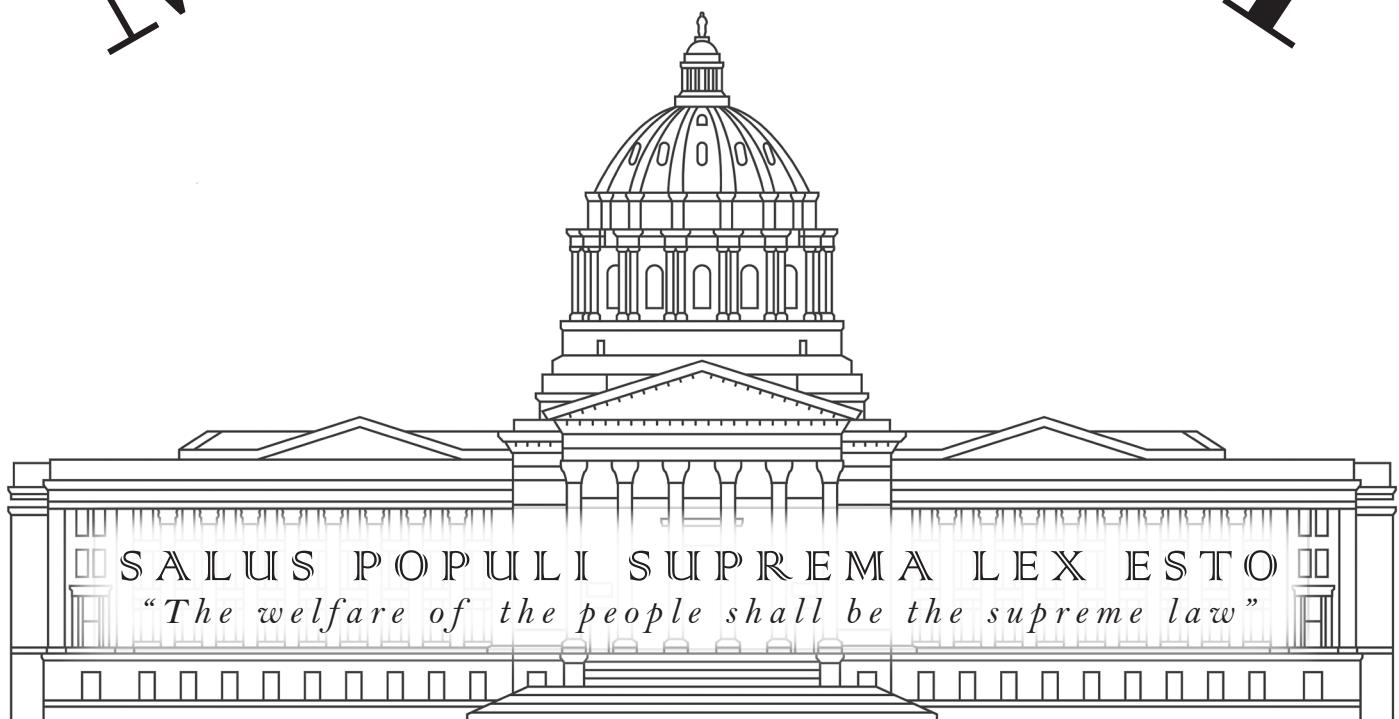


Volume 50, Number 9  
Pages 563–684

May 1, 2025

# MISSOURI



# REGISTER

Denny Hoskins  Secretary of State

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# MISSOURI REGISTER



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| May 1, 2026<br>May 15, 2026             | June 1, 2026<br>June 15, 2026           | June 30, 2026<br>June 30, 2026           | July 30, 2026<br>July 30, 2026           |

Documents will be accepted for filing on all regular workdays from 8:00 a.m. until 5:00 p.m. We encourage early filings to facilitate the timely publication of the *Missouri Register*. Orders of Rulemaking appearing in the *Missouri Register* will be published in the *Code of State Regulations* and become effective as listed in the chart above. Advance notice of large volume filings will facilitate their timely publication. We reserve the right to change the schedule due to special circumstances. Please check the latest publication to verify that no changes have been made in this schedule. To review the entire year's schedule, please see the website at [sos.mo.gov/adrules/pubsched](http://sos.mo.gov/adrules/pubsched).

## HOW TO CITE RULES AND RSMO

### RULES

The rules are codified in the *Code of State Regulations* in this system—

| Title           | CSR                                      | Division                  | Chapter                   | Rule                       |
|-----------------|--|---------------------------|---------------------------|----------------------------|
| 3<br>Department | <i>Code of<br/>State<br/>Regulations</i> | 10-<br>Agency<br>division | 4                         | 115                        |
|                 |  |                           | General area<br>regulated | Specific area<br>regulated |

and should be cited in this manner: 3 CSR 10-4.115.

Each department of state government is assigned a title. Each agency or division in the department is assigned a division number. The agency then groups its rules into general subject matter areas called chapters and specific areas called rules. Within a rule, the first breakdown is called a section and is designated as (1). Subsection is (A) with further breakdown into paragraphs 1., subparagraphs A., parts (I), subparts (a), items I. and subitems a.

The rule is properly cited by using the full citation; for example, 3 CSR 10-4.115, NOT Rule 10-4.115.

Citations of RSMo are to the *Missouri Revised Statutes* as of the date indicated.

### ***Code and Register on the Internet***

The *Code of State Regulations* and *Missouri Register* are available on the Internet.

The *Code* address is [sos.mo.gov/adrules/csr/csr](http://sos.mo.gov/adrules/csr/csr)

The *Register* address is [sos.mo.gov/adrules/moreg/moreg](http://sos.mo.gov/adrules/moreg/moreg)

These websites contain rulemakings and regulations as they appear in the *Code* and *Registers*.

The Secretary of State shall publish all executive orders beginning January 1, 2003, pursuant to section 536.035.2, RSMo.

EXECUTIVE ORDER 25-20

WHEREAS, on March 14, 2025, Executive Order 25-19 invoked the provisions of Sections 44.100 and 44.110, RSMo, and declared that a State of Emergency exists in the State of Missouri due to ongoing and forecast severe storm systems; and

WHEREAS, I have been advised by the State Emergency Management Agency that the severe weather has caused damages associated with high winds and tornados impacting communities throughout the State of Missouri; and

WHEREAS, the severe weather created a condition of distress and hazards to the safety and welfare of the citizens of the State of Missouri beyond the capabilities of some local jurisdictions and other established agencies; and

WHEREAS, the Missouri Department of Natural Resources is charged by law with protecting and enhancing the quality of Missouri's environment and with enforcing environmental rules and regulations; and

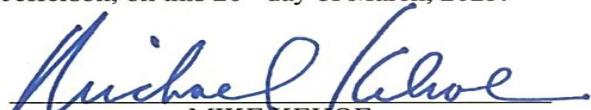
WHEREAS, in order to respond to the emergency and expedite the cleanup and recovery process, it is necessary to adjust certain environmental rules and regulations on a temporary and short-term basis.

NOW THEREFORE, I, MIKE KEHOE, GOVERNOR OF THE STATE OF MISSOURI, by virtue of the authority vested in me by Chapter 44, RSMo, do hereby issue the following order:

The Director of the Missouri Department of Natural Resources is vested with full discretionary authority to temporarily waive or suspend the operation of any statutory or administrative rule or regulation currently in place under their purview in order to best serve the interests of the public health and safety during the period of the emergency and the subsequent recovery period.

This Order shall terminate on April 14, 2025, unless extended in whole or in part.

IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Great Seal of the State of Missouri, in the City of Jefferson, on this 20<sup>th</sup> day of March, 2025.

  
MIKE KEHOE  
GOVERNOR

ATTEST:



  
DENNY HOSKINS  
SECRETARY OF STATE

The text of proposed rules and changes will appear under this heading. A notice of proposed rulemaking is required to contain an explanation of any new rule or any change in an existing rule and the reasons therefor. This explanation is set out in the PURPOSE section of each rule. A citation of the legal authority to make rules is also required, and appears following the text of the rule, after the word "Authority."

Entirely new rules are printed without any special symbology under the heading of proposed rule. If an existing rule is to be amended or rescinded, it will have a heading of proposed amendment or proposed rescission. Rules that are proposed to be amended will have new matter printed in boldface type and matter to be deleted placed in brackets.

An important function of the *Missouri Register* is to solicit and encourage public participation in the rulemaking process. The law provides that for every proposed rule, amendment, or rescission there must be a notice that anyone may comment on the proposed action. This comment may take different forms.

If an agency is required by statute to hold a public hearing before making any new rules, then a Notice of Public Hearing will appear following the text of the rule. Hearing dates must be at least thirty (30) days after publication of the notice in the *Missouri Register*. If no hearing is planned or required, the agency must give a Notice to Submit Comments. This allows anyone to file statements in support of or in opposition to the proposed action with the agency within a specified time, no less than thirty (30) days after publication of the notice in the *Missouri Register*.

An agency may hold a public hearing on a rule even though not required by law to hold one. If an agency allows comments to be received following the hearing date, the close-of-comments date will be used as the beginning day in the ninety- (90-) day count necessary for the filing of the order of rulemaking.

If an agency decides to hold a public hearing after planning not to, it must withdraw the earlier notice, file a new notice of proposed rulemaking, and schedule a hearing for a date not less than thirty (30) days from the date of publication of the new notice.

Proposed Amendment Text Reminder:

**Boldface text indicates new matter.**

[Bracketed text indicates matter being deleted.]

**TITLE 12 – DEPARTMENT OF REVENUE**  
**Division 10 – Director of Revenue**  
**Chapter 2 – Income Tax**

**PROPOSED AMENDMENT**

**12 CSR 10-2.436 SALT Parity Act Implementation.** The director is adding section (12) and amending sections (2), (5), (7), (9), and (10).

**PURPOSE:** Among other changes, this amendment updates the rule to accommodate the August 28, 2024, legislative amendment to section 143.436, RSMo, including provisions regarding opt-out elections.

(2) An election to become an affected business entity for a tax year shall not be effective if the partnership or S corporation has not successfully designated a person as an affected business

entity representative for that tax year at or before the time the partnership or S corporation attempts to make such election. For an election to be effective, the affected business entity tax return (Form MO-PTE) on which the election is made must include the signatures of either –

(A) Each member of the electing entity who is a member at the time the affected business entity tax return is filed; [or]

(B) An officer, manager, or member of the electing entity who is authorized to make the election and who attests to having such authorization under penalty of perjury[.]; or

(C) The designated affected business entity representative of the partnership or S corporation, including but not limited to an affected business entity representative who is re-designated as such on the same Form MO-PTE in the manner described in subsection (5)(D) of this rule.

(5) At or before the time that a partnership or S corporation files its affected business entity tax return (Form MO-PTE) on which the election is made, the partnership or S corporation shall designate an affected business entity representative for that tax year. Only one (1) natural person may serve as an affected business entity representative for a tax year.

(A) To designate a person as an affected business entity representative, the partnership or S corporation must file with the department a Power of Attorney (Form 2827) or Pass-Through Entity Power of Attorney (Form 2827 PTE) designating that person as an appointed representative and giving that person the title of "Affected Business Entity Representative." The designation must be signed by someone with authority to make such a designation on behalf of the partnership or S corporation.

[(B) The Power of Attorney (Form 2827) must include the signature of an officer, manager, or member of the partnership or S corporation who is authorized to designate an affected business entity representative and who attests to having such authorization under penalty of perjury. Alternatively, the Power of Attorney (Form 2827) must include the signatures of partners or shareholders who together hold the majority of the voting power of the partnership or S corporation. In lieu of adding signature(s) in the signature box of the Power of Attorney (Form 2827), an attachment shall be included with the filing of the Power of Attorney (Form 2827), containing such signature(s) under the following statement: "Under penalties of perjury, I (we) hereby certify that I (we) am (are) members of, or an officer or manager of, the taxpayer named on this Form 2827, and that I (we together) am (are) authorized to designate an affected business entity representative for the taxpayer."]

[(C)](B) As necessary qualifications to be designated as an affected business entity representative for a tax year, a person must have a working email address, telephone number, and physical address at which to receive mail, all of which must be provided to the department.

[(D) The Power of Attorney (Form 2827) must include a current working email address, telephone number, and physical mailing address of the person to be designated as the affected business entity representative. A filing lacking any information required by subsections (B) or (D) of this section will be ineffective to designate a person as an affected business entity representative.]

[(E)](C) If a Power of Attorney (Form 2827) or Pass-Through Entity Power of Attorney (Form 2827 PTE) is filed [with the signatures] as required [by subsection (B)] above, and is executed by someone with authority to do so on behalf of the partnership or S corporation, but the filing lacks one (1) or more necessary items of information [required by subsection (D) above,] or the person who would otherwise serve as

affected business entity representative lacks one (1) of the qualifications required [*by subsection (C)*] above, that person shall nevertheless be considered an authorized representative of the partnership or S corporation for purposes of receiving and discussing the partnership or S corporation's confidential tax information otherwise protected by section 32.057, RSMo. By way of example, the department may communicate with that person to share what items or qualifications were lacking in the attempt to make that person an affected business entity representative.

**[(F)](D)** If a person has already been designated as an affected business entity representative for an affected business entity's prior tax year, in lieu of the other requirements of this section, that person may be re-designated as an affected business entity representative for a later tax year by the filing of that tax year's affected business entity tax return (Form MO-PTE) and the checking of a box on that return indicating the affected business entity's intent to re-designate that representative. The affected business entity representative for the prior tax year may check this box, re-designating himself or herself as an affected business entity representative, only if the affected business entity representative has been given authority, by the partnership or S corporation, to do so for the tax year for which the box is checked.

(7) An affected business entity is not subject to an estimated income tax declaration filing requirement, or an estimated income tax payment requirement, **with respect to the tax under section 143.436, RSMo**. An affected business entity may choose to make an early payment of its anticipated tax liability for a tax year, even if the tax year is not yet complete.

(9) The affected business entity's tax under section 143.436, RSMo, is due [*at the same time the affected business entity's return is due, that is,*] by the fifteenth day of the fourth month following the end of the partnership or S corporation's tax year. By this same date, the affected business entity shall file an affected business entity tax return (Form MO-PTE) unless a filing extension is approved by the department. If an affected business entity is approved for a filing extension of the affected business entity tax return (Form MO-PTE), the affected business entity is likewise granted an equal extension of time for the payment of the tax due under section 143.436, RSMo. Pursuant to section 143.731.2, RSMo, interest on this tax will continue to accrue regardless of any extension of time for payment.

(10) If a partnership or S corporation has received a federal extension for filing its annual partnership or S corporation federal return, that partnership or S corporation is hereby granted an equal extension of time for filing its affected business entity tax return (Form MO-PTE) **for the same tax year**, except that this extension will be no longer than six (6) months. The partnership or S corporation must attach a copy of the approved federal extension to its affected business entity tax return (Form MO-PTE). [*This section applies only to partnerships or S corporations that have an original affected business entity tax return due date that matches the original due date of their annual partnership or S corporation federal return.*]

(12) Any member of an affected business entity may elect not to have tax imposed on the affected business entity under section 143.436, RSMo, with respect to the affected business entity's separately and nonseparately computed items, otherwise subject to tax under section

143.436, RSMo, to the extent such items are allocable to that member. This election is referred to as an "opt-out election," and a member who has timely made this election is referred to as an "opt-out member."

(A) If a member wishes to make an opt-out election for a tax year, the opt-out election shall be filed with the department by the earlier of the original (unextended) due date of the Form MO-PTE for that tax year, or the actual filing date of the Form MO-PTE for that tax year. The opt-out member shall also furnish the opt-out election to the partnership or S corporation. The opt-out election must specify the partnership or S corporation to which the opt-out election applies.

(B) Once an opt-out election is filed, it applies to the tax year for which it was first timely filed and for all subsequent tax years. However, an opt-out member may revoke that member's opt-out election. To be effective for a tax year, the revocation must be filed with the department by the filing due date of an opt-out election for that tax year. The member shall also furnish the opt-out election revocation to the partnership or S corporation. The revocation of an opt-out election applies to the tax year for which the revocation was first timely filed, and for all subsequent tax years, until a new opt-out election is filed.

(C) For any tax year to which the opt-out election applies, with respect to the partnership or S corporation to which the opt-out election applies, the opt-out member is ineligible for the tax credits that would otherwise be granted by sections 143.436.8 and 143.436.10, RSMo. In determining the pro rata shares of tax paid under section 143.436, RSMo, for purposes of computing the tax credits allowed by sections 143.436.8 and 143.436.10, RSMo, the pro rata share percentage that would otherwise be attributed to an opt-out member shall be redistributed proportionally among the members who are not opt-out members. For example, if an S corporation has opt-out members with a share percentage of thirty percent (30%), and a non-opt-out member of an S corporation has a share percentage of ten percent (10%), then that non-opt-out member's new credit percentage is ten percent (10%) divided by seventy percent (70%), that is, fourteen percent (14%). This subsection shall not be construed to affect an opt-out member's authorization to carry forward and redeem outstanding tax credits that were initially allowed for a tax year to which the opt-out election did not apply.

(D) For any tax year to which the opt-out election applies, with respect to the partnership or S corporation to which the opt-out election applies, such partnership or S corporation shall, when computing the tax under section 143.436, RSMo, remove all opt-out members' allocable items such as income, deductions, or any other relevant items. Addition and subtraction modifications must be determined as though the income, deductions, and other relevant items allocable to the opt-out members did not exist.

**AUTHORITY:** sections 32.057.2, 136.120, and 143.961, RSMo 2016, and section 143.436, RSMo Supp. [2022] 2024. Emergency rule filed Dec. 27, 2022, effective Jan. 11, 2023, expired July 9, 2023. Original rule filed Dec. 27, 2022, effective June 30, 2023. Amended: Filed March 31, 2025.

**PUBLIC COST:** This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

**PRIVATE COST:** This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

**NOTICE TO SUBMIT COMMENTS:** Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Revenue, Legislative Office, 301 W. High Street, Room 218, Jefferson City, MO 65109-0475. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**TITLE 12 – DEPARTMENT OF REVENUE**  
**Division 10 – Director of Revenue**  
**Chapter 24 – Driver License Bureau Rules**

**PROPOSED AMENDMENT**

**12 CSR 10-24.200 Driver License Classes.** The director is amending sections (2) and (15) and adding a new section (18).

**PURPOSE:** This amendment updates language to match recent changes to the Missouri statute definition of the school bus in 302.010, RSMo, as well as adding additional language clarifying actions required under the Driver License Compact in 302.600, RSMo.

(2) Class A—The holder of a Class A license may drive any combination of vehicles with a Gross Combination Weight Rating (GCWR) of twenty-six thousand one pounds (26,001 lbs.) or more, provided the Gross Vehicle Weight Rating (GVWR) of the vehicle(s) being towed is ten thousand one pounds (10,001 lbs.) or more[,] provided[,] the license bears the proper endorsement(s), if any, required for the type of vehicle being driven. A holder of a Class A license may drive all vehicles [which] that may be driven by a holder of a Class B, Class C, Class E, or Class F license, but not motorcycles or vehicles [which] that require an endorsement(s) unless the proper endorsement(s) appears on the license.

(15) In addition to holding the appropriate class of license as prescribed, the driver of a school bus owned by or under contract with a public school or the State Board of Education[,] must have qualified for and obtained an S endorsement in accordance with the requirement of section 302.272, RSMo. In addition, the holder of an S endorsement may be issued a restriction limiting the classification of a school bus in which the driver may operate. The restriction is determined by the school bus in which the driving skills examination was completed. The driver of a school bus, as defined in section 301.010, RSMo, that is less than or equal to twelve thousand pounds (12,000 lbs.) and designed to transport ten (10) or fewer passengers is not required to obtain other than a Class F operator license and is not required to obtain a school bus endorsement.

(18) In addition to other restrictions of issuance, a Missouri driver license will not be issued to an individual unless and until any previously issued Missouri or out-of-state driver license and any Missouri or out-of-state nondriver identification card is surrendered or a statement that the physical card was lost, destroyed, or stolen. An individual may hold either a valid Missouri driver license or nondriver identification card, but not both.

(A) As part of the requirements to transition to one (1)

license or one (1) nondriver identification card, any person previously issued a Missouri driver license or a nondriver identification card will be required to surrender one (1) of the credential types at the time of their next application for any new, renewal, or duplicate.

(B) The holder of a Missouri driver license may during a period of suspension, revocation, denial, or disqualification of their driving privilege elect to surrender the physical driver license and obtain a nondriver identification card. The holder of a nondriver identification card issued during any period of suspension, revocation, denial, or disqualification will be required to surrender the nondriver identification card to be eligible for return or issuance of a driver license. Any applicable fees will apply.

(C) The holder of a Missouri driver license or nondriver license may hold a valid noncommercial instruction permit if other testing and eligibility conditions for the permit class type requested are met.

(D) The holder of a valid, unexpired Missouri driver license may hold a commercial learner's permit if other permit testing and eligibility conditions are met.

**AUTHORITY:** section[s] 302.015 [and 302.765], RSMo 2016, and sections 302.010 and 387.438, RSMo Supp. [2017] 2024. Original rule filed Jan. 16, 1990, effective May 11, 1990. For intervening history, please consult the **Code of State Regulations**. Amended: Filed March 31, 2025.

**PUBLIC COST:** This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

**PRIVATE COST:** This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

**NOTICE TO SUBMIT COMMENTS:** Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Revenue, Legislative Office, 301 W. High St., Room 218, Jefferson City, MO 65109-0475. To be considered, comments must be received within thirty (30) days after publication of this notice in the *Missouri Register*. No public hearing is scheduled.

**TITLE 12 – DEPARTMENT OF REVENUE**  
**Division 10 – Director of Revenue**  
**Chapter 26 – Dealer Licensure**

**PROPOSED AMENDMENT**

**12 CSR 10-26.030 License Renewal.** The director is amending section (3) and adding a new section (4).

**PURPOSE:** This amendment updates the sales requirements for the renewal of a license of a motor vehicle dealer.

(3) For renewal of a license of a motor vehicle dealer [or a boat dealer], an applicant must submit all previous monthly sales reports that document at least [six (6)] eight (8) sales made during the last year licensed, if the applicant was licensed for the full calendar year. For licensure of less than one (1) year, the department will prorate the [six (6)] eight (8) sales requirement provided in section 301.550, RSMo, by requiring [one (1)] two (2) sales for each full [two (2)-month] three- (3-) month period licensed.

(4) For renewal of a license of a boat dealer, an applicant must submit all previous monthly sales reports that document at least six (6) sales made during the last year licensed, if the applicant was licensed for the full calendar year. For licensure of less than one (1) year, the department will prorate the six (6) sales requirement provided in section 301.550, RSMo, by requiring one (1) sale for each full two- (2-) month period licensed.

*AUTHORITY: sections 301.550, 301.553, 301.559, and 301.560, RSMo Supp. [1998] 2024. Original rule filed Nov. 1, 1999, effective May 30, 2000. Amended: Filed March 31, 2025.*

*PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

*PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

*NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Department of Revenue, Legislative Office, 301 W. High St., Room 218, Jefferson City, MO 65109-0475. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

**TITLE 20 – DEPARTMENT OF COMMERCE  
AND INSURANCE  
Division 2110 – Missouri Dental Board  
Chapter 2 – General Rules**

**PROPOSED AMENDMENT**

**20 CSR 2110-2.240 Continuing Dental Education.** The board is adding new subsection (2)(I).

*PURPOSE: This amendment allows licensees to claim continuing education hours for authoring articles published in professional journals.*

(2) In order to renew a license, each dentist shall submit satisfactory evidence of completion of fifty (50) hours of continuing education during the two- (2-) year period immediately preceding the renewal period, and each dental hygienist shall submit satisfactory evidence of completion of thirty (30) hours of continuing education during the two- (2-) year period immediately preceding the renewal period. Any hours acquired beyond the required number may be carried forward into the next time block not to exceed twenty-five (25) hours for dentists and fifteen (15) hours for dental hygienists. Of the fifty (50) hours required for dentists, not less than forty (40) must be hours directly related to the updating and maintaining of knowledge and skills in the treatment, health, and safety of the individual dental patient. Of the thirty (30) hours required for dental hygienists, not less than twenty-five (25) must be hours directly related to the updating and maintaining of knowledge and skills in the treatment, health, and safety of the individual dental patient. One (1) hour of continuing education shall be granted for every fifty to sixty (50–60) minutes of contact (either academic or clinical) instruction.

**(I) Licensees who author an article or paper pertaining**

to the practice of dentistry or dental hygiene that is published in a dental or dental hygiene professional journal may claim up to seven (7) hours of continuing education hours per reporting period. This excludes op-ed pieces and letters to the editor.

*AUTHORITY: sections 332.031, 332.181, and 332.261, RSMo 2016. This rule originally filed as 4 CSR 110-2.240. Original rule filed Aug. 30, 1993, effective April 9, 1994. For intervening history, please consult the **Code of State Regulations**. Amended: Filed March 20, 2025.*

*PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

*PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

*NOTICE TO SUBMIT COMMENTS: Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri Dental Board, PO Box 1367, Jefferson City, MO 65102, by facsimile at (573) 751-8216, or via email at dental@pr.mo.gov. To be considered, comments must be received within thirty (30) days after publication of this notice in the Missouri Register. No public hearing is scheduled.*

**TITLE 20 – DEPARTMENT OF COMMERCE AND  
INSURANCE  
Division 2150 – State Board of Registration for the  
Healing Arts  
Chapter 7 – Licensing of Physician Assistants**

**PROPOSED AMENDMENT**

**20 CSR 2150-7.135 Physician Assistant Collaborative Practice Arrangements.** The board is deleting section (6) and renumbering as necessary.

*PURPOSE: This amendment removes language requiring a one- (1-) month period for the collaborating physician to be continuously present with the physician assistant.*

*[(6) It is the responsibility of the collaborating physician to determine and document the completion of a one- (1-) month period of time during which the licensed physician assistant shall practice with a collaborating physician continuously present before practicing in a setting where a collaborating physician is not continuously present. The collaborating physician may determine what constitutes a one- (1-) month period.]*

*[(7)](6) The collaborating physician shall complete a review of ten percent (10%) of the total health care services delivered by the physician assistant. If the physician assistant practice includes the prescribing of controlled substances, the physician shall review a minimum of twenty percent (20%) of the cases in which the physician assistant wrote a prescription for a controlled substance. If the controlled substance chart review meets the minimum total ten percent (10%) as described above, then the minimum review requirements have been met. The physician assistant's documentation shall be submitted for review to the collaborating physician at least every fourteen (14) days. This documentation submission may be accomplished in person or by other electronic means and*

reviewed by the collaborating physician. The collaborating physician must produce evidence of the chart review upon request of the Missouri State Board of Registration for the Healing Arts. If a collaborative practice arrangement is used in clinical situations where a physician assistant provides health care services that include the diagnosis and initiation of treatment for acutely or chronically ill or injured persons, then the collaborating physician shall be present for sufficient periods of time, at least once every two (2) weeks, except in extraordinary circumstances that shall be documented, to participate in such review and to provide necessary medical direction, medical services, consultations, and supervision of the health care staff. If the physician assistant is utilizing telehealth in providing services, the collaborating physician may be present in person or the collaboration may occur via telehealth in order to meet the requirements of this section. Telehealth providers shall obtain patient's or the patient's guardian's consent before telehealth services are initiated and shall document the patient's or the patient's guardian's consent in the patient's file or chart. All telehealth activities must comply with the requirements of the Health Insurance Portability and Accountability Act of 1996, as amended, and all other applicable state and federal laws and regulations.

**[(8)](7)** Pursuant to section 630.875, RSMo, a physician assistant collaborating with a physician who is waiver-certified for the use of buprenorphine may participate in the "Improved Access to Treatment for Opioid Addictions Program" (IATOAP) in any area of the state and provide all services and functions of a physician assistant. A remote collaborating physician working with an on-site physician assistant shall be considered to be on-site for the purposes of IATOAP.

**[(9)](8)** If any provisions of these rules are deemed by the appropriate federal or state authority to be inconsistent with guidelines for federally funded clinics, individual provisions of these rules shall be considered severable and collaborating physicians and licensed physician assistants practicing in such clinics shall follow the provisions of such federal guidelines in these instances. However, the remainder of the provisions of these rules not so affected shall remain in full force and effect for such practitioners.

**AUTHORITY:** section 334.735, RSMo Supp. [2021] 2024. This rule originally filed as 4 CSR 150-7.135. Original rule filed Jan. 3, 1997, effective July 30, 1997. For intervening history, please consult the **Code of State Regulations**. Amended: Filed March 25, 2025.

**PUBLIC COST:** This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

**PRIVATE COST:** This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

**NOTICE TO SUBMIT COMMENTS:** Anyone may file a statement in support of or in opposition to this proposed amendment with the Missouri State Board of Registration for the Healing Arts, PO Box 4, 3605 Missouri Boulevard, Jefferson City, MO 65102, by facsimile at (573) 751-3166, or via email at [healingarts@pr.mo.gov](mailto:healingarts@pr.mo.gov). To be considered, comments must be received within thirty (30) days after publication of this notice in the **Missouri Register**. No public hearing is scheduled.

## TITLE 20 – DEPARTMENT OF COMMERCE AND INSURANCE

### Division 4240 – Public Service Commission

#### Chapter 40 – Gas Utilities and Gas Safety Standards

##### PROPOSED AMENDMENT

**20 CSR 4240-40.020 Incident, Annual, and Safety-Related Condition Reporting Requirements.** The commission is amending sections (1) – (12).

**PURPOSE:** *This amendment modifies the rule to update incident reporting thresholds for inflation, updates PHMSA form revision dates, and makes editorial changes.*

**(1) Scope.** (191.1)

(A) This rule prescribes requirements for the reporting of incidents, safety-related conditions, annual pipeline summary data, National Operator Registry information, and other miscellaneous conditions by operators of gas pipeline facilities and underground natural gas storage facilities located in Missouri and under the jurisdiction of the commission. This rule applies to onshore gathering lines, including Type R gathering lines as determined in 20 CSR 4240-40.030(E)1. [(192.8)]

**(2) Definitions.** (191.3) As used in this rule and in the PHMSA [F] forms referenced in this rule –

(D) Federal incident means any of the following events:

1. An event that involves a release of gas from a pipeline, gas from an underground natural gas storage facility (UNGSF), liquefied natural gas (LNG), liquefied petroleum gas, refrigerant gas, or gas from an LNG facility, and that results in one (1) or more of the following consequences:

A. A death or personal injury necessitating inpatient hospitalization; or

B. Estimated property damage of *[one hundred twenty-nine thousand three hundred dollars (\$129,300)]* one hundred forty-five thousand four hundred dollars (\$145,400) or more, including loss to the operator and others, or both, but excluding the cost of gas lost; or

C. Unintentional estimated gas loss of three (3) million cubic feet or more;

2. An event that results in an emergency shutdown of an LNG facility or an UNGSF. Activation of an emergency shutdown system for reasons other than an actual emergency does not constitute an incident; or

3. An event that is significant, in the judgment of the operator, even though it did not meet the criteria of paragraph (2)(D)1. or (2)(D)2.

(N) Regulated onshore gathering means a Type A, Type B, or Type C gas gathering pipeline system as determined in 20 CSR 4240-40.030(E)1. [(192.8)];

(O) Reporting-regulated gathering means a Type R gathering line as determined in 20 CSR 4240-40.030(E)1. [(192.8)] A Type R gathering line is subject only to this rule;

**(3) Immediate Notice of Federal Incidents.** (191.5)

(A) At the earliest practicable moment following discovery, but no later than one (1) hour after confirmed discovery, each operator shall give notice, in accordance with subsection (3) (B), of each federal incident as defined in section (2) [(191.3)].

**(4) Immediate Notice of Missouri Incidents.**

(A) Within two (2) hours following discovery by the operator,

or as soon thereafter as practicable if emergency efforts to protect life and property would be hindered, each gas operator must notify designated commission personnel by telephone of the following events within areas served by the operator:

1. An event that involves a release of gas involving the operator's actions or pipeline system, or where there is a suspicion by the operator that the event may involve a release of gas involving the operator's actions or pipeline system, and results in one (1) or more of the following consequences:

A. A death;

B. A personal injury involving medical care administered in an emergency room or health care facility, whether inpatient or outpatient, beyond initial treatment and prompt release after evaluation by a health care professional; or

C. Estimated property damage of *[seventeen thousand five hundred dollars (\$17,500)] nineteen thousand two hundred dollars (\$19,200)* or more, including loss to the gas operator or others, or both, and including the cost of gas lost;

2. An event that is significant, in the judgement of the operator, even though it did not meet the criteria of paragraph (4)(A)1.; or

3. An event that is reported as a *[F]*federal incident under section (3).

(5) Report Submission Requirements. (191.7)

(B) Missouri incident reports.

1. This subsection applies to events that meet the criteria in subsection (4)(A) but are not a federal incident reported under subsection (5)(A). Within thirty (30) days of a telephone notification made under subsection (4)(A), each gas operator must submit the applicable U.S. Department of Transportation Form PHMSA F 7100.1, PHMSA F 7100.2, or PHMSA F 7100.3 to designated commission personnel. Additional information required in subsections (6)(B) and (9)(B) for federal incidents is also required for these events.

2. The incident report forms for gas distribution systems (PHMSA F 7100.1*, revised May 2021*), gas transmission pipeline systems, *[and]* gas gathering pipeline systems, and underground natural gas storage facilities (PHMSA F 7100.2*, revised March 2022*), Type R (reporting-regulated) gas gathering pipeline systems (PHMSA F 7100.2.2), and LNG facilities (PHMSA F 7100.3*, revised April 2019*) are incorporated by reference in subsection (5)(G).

(C) Safety-related conditions. An operator must submit concurrently to PHMSA and designated commission personnel a safety-related condition report required by section (12) [(191.23)]. A safety-related condition report can be submitted by electronic mail or telefacsimile (fax) as provided for in section (13).

(G) Forms incorporated by reference.

1. The following forms are incorporated by reference and made part of this rule.

A. U.S. Department of Transportation Form PHMSA F 1000.1, revised *[January 2020] March 2022*. The PHMSA F 1000.1 form is the Operator Identification (OPID) Assignment Request form and does not include any amendments or additions to the *[January 2020] March 2022* version.

B. U.S. Department of Transportation Form PHMSA F 1000.2, revised March 2022. The PHMSA F 1000.2 form is the National Registry Notification form for reporting changes including operator name change, change in entity operating, shared safety program change, change in ownership for gas facilities, construction or rehabilitation of gas facilities, change in ownership for LNG, and construction for LNG. The PHMSA F 1000.2 form does not include any amendments or

additions to the March 2022 version.

C. U.S. Department of Transportation Form PHMSA F 7100.1, revised *[May 2021] September 2023*. The PHMSA F 7100.1 form is the incident report form for gas distribution systems and does not include any amendments or additions to the *[May 2021] September 2023* version.

D. U.S. Department of Transportation Form PHMSA F 7100.1-1, revised *[May 2021] June 2023*. The PHMSA F 7100.1-1 form is the annual report form for gas distribution systems and does not include any amendments or additions to the *[May 2021] June 2023* version.

E. Reserved.

F. U.S. Department of Transportation Form PHMSA F 7100.2, revised *[March 2022] September 2023*. The PHMSA F 7100.2 form is the incident report form for gas transmission pipeline systems, *[and]* gas gathering pipeline systems, and underground natural gas storage facilities and does not include any amendments or additions to the *[March 2022] September 2023* version.

G. U.S. Department of Transportation Form PHMSA F 7100.2-1, revised *[March 2022] August 2023*. The PHMSA F 7100.2-1 form is the annual report form for gas transmission and gathering pipeline systems and does not include any amendments or additions to the *[March 2022] August 2023* version.

H. U.S. Department of Transportation Form PHMSA F 7100.3, revised *[April 2019] September 2023*. The PHMSA F 7100.3 form is the incident report form for LNG facilities and does not include any amendments or additions to the *[April 2019] September 2023* version.

I. U.S. Department of Transportation Form PHMSA F 7100.3-1, revised October 2014. The PHMSA F 7100.3-1 form is the annual report form for LNG facilities and does not include any amendments or additions to the October 2014 version.

J. U.S. Department of Transportation Form PHMSA F 7100.4-1, approved *[August 2017] March 1, 2022*. The PHMSA F 7100.4-1 form is the annual report form for underground natural gas storage facilities and does not include any amendments or additions to the *[August 2017] March 1, 2022* version.

K. U.S. Department of Transportation Form PHMSA F 7100.2.2, approved March 2022. The PHMSA F 7100.2.2 form is the incident report form for Type R (reporting-regulated) gas gathering pipeline systems and does not include any amendments or additions to the March 2022 version.

L. U.S. Department of Transportation Form PHMSA F 7100.2-3, approved March 2022. The PHMSA F 7100.2-3 form is the annual report form for Type R (reporting-regulated) gas gathering pipeline systems and does not include any amendments or additions to the March 2022 version.

2. The forms listed in paragraph (5)*[(D)](G)1.* are published by the U.S. Department of Transportation Office of Pipeline Safety, PHP-10, 1200 New Jersey Avenue SE, Washington, DC 20590-0001. The forms are available at [\[www.phmsa.dot.gov/forms/pipeline-forms\]](http://www.phmsa.dot.gov/forms/pipeline-forms) <https://www.phmsa.dot.gov/forms/operator-reports-submitted-phmsa-forms-and-instructions> or upon request from the pipeline safety program manager at the address given in subsection (5)(E).

(6) Distribution System – Federal Incident Report. (191.9)

(A) Except as provided in subsection (6)(C), each operator of a distribution pipeline system must submit U.S. Department of Transportation Form PHMSA F 7100.1 as soon as practicable but not more than thirty (30) days after detection of an incident required to be reported under section (3) [(191.5)]. See the report submission requirements in subsection (5)(A). The incident report form *[(revised May 2021)]* is incorporated by

reference in subsection (5)(G).

(7) Distribution System – Annual Report.

(A) Annual report. (191.11)

1. Except as provided in paragraph (7)(A)3., each operator of a distribution pipeline system must submit an annual report for that system on U.S. Department of Transportation Form PHMSA F 7100.1-1. This report must be submitted each year, not later than March 15, for the preceding calendar year. See the report submission requirements in subsection (5)(A).

2. The annual report form *[(revised May 2021)]* is incorporated by reference in subsection (5)(G).

3. The annual report requirement in this subsection does not apply to a master meter system, a petroleum gas system that serves fewer than one hundred (100) customers from a single source, or an individual service line directly connected to a production pipeline or a gathering line other than a regulated gathering line as determined in 20 CSR 4240-40.030(1)(E)1. *[(192.8)]*

(8) Distribution Systems Reporting Transmission Pipelines – Transmission or Gathering Systems Reporting Distribution Pipelines. (191.13) Each operator primarily engaged in gas distribution who also operates gas transmission or gathering pipelines shall submit separate reports for these pipelines as required by sections (9) and (10) *[(191.15 and 191.17)]*. Each operator primarily engaged in gas transmission or gathering who also operates gas distribution pipelines shall submit separate reports for these pipelines as required by sections (6) and (7) *[(191.9 and 191.11)]*.

(9) Transmission Systems; Gathering Systems; Liquefied Natural Gas Facilities; and Underground Natural Gas Storage Facilities – Federal Incident Report. (191.15)

(A) Transmission or gathering.

1. Each operator of a transmission or a regulated onshore gathering pipeline system must submit U.S. Department of Transportation Form PHMSA F 7100.2 as soon as practicable but not more than thirty (30) days after detection of an incident required to be reported under section (3). *[(191.5)]* See the report submission requirements in subsection (5)(A). The incident report form *[(revised March 2022)]* is incorporated by reference in subsection (5)(G).

2. Each operator of a reporting-regulated gathering pipeline system must submit U.S. Department of Transportation Form PHMSA F 7100.2.2 as soon as practicable but not more than thirty (30) days after detection of an incident required to be reported under section (3) *[(191.5)]* that occurs after May 16, 2022. See the report submission requirements in subsection (5)(A). The incident report form *[(revised March 2022)]* is incorporated by reference in subsection (5)(G).

(B) LNG. Each operator of a liquefied natural gas plant or facility must submit U.S. Department of Transportation Form PHMSA F 7100.3 as soon as practicable but not more than thirty (30) days after detection of an incident required to be reported under section (3) *[(191.5)]*. See the report submission requirements in subsection (5)(A). The incident report form *[(revised April 2019)]* is incorporated by reference in subsection (5)(G).

(C) Underground natural gas storage facility. Each operator of an UNGSF must submit U.S. Department of Transportation Form PHMSA F 7100.2 as soon as practicable but not more than thirty (30) days after detection of an incident required to be reported under section (3). *[(191.5)]* See the report submission requirements in subsection (5)(A). The incident report form *[(revised March 2022)]* is incorporated by reference

in subsection (5)(G).

(10) Transmission Systems; Gathering Systems; Liquefied Natural Gas Facilities; and Underground Natural Gas Storage Facilities – Annual Report. (191.17)

(A) Transmission or gathering.

1. Each operator of a transmission or a regulated onshore gathering pipeline system must submit an annual report for that system on U.S. Department of Transportation Form PHMSA F 7100.2-1. This report must be submitted each year, not later than March 15, for the preceding calendar year. See the report submission requirements in subsection (5)(A). The annual report form *[(revised March 2022)]* is incorporated by reference in subsection (5)(G).

2. Type R gathering. Beginning with an initial annual report submitted in March 2023 for the 2022 calendar year, each operator of a reporting-regulated gas gathering pipeline system must submit an annual report for that system on U.S. Department of Transportation Form PHMSA F 7100.2-3. This report must be submitted each year, not later than March 15, for the preceding calendar year. See the report submission requirements in subsection (5)(A). The annual report form *[(revised March 2022)]* is incorporated by reference in subsection (5)(G).

(B) LNG. Each operator of a liquefied natural gas facility must submit an annual report for that system on U.S. Department of Transportation Form PHMSA F 7100.3-1. This report must be submitted each year, not later than March 15, for the preceding calendar year. See the report submission requirements in subsection (5)(A). The annual report form *[(revised October 2014)]* is incorporated by reference in subsection (5)(G).

(C) Underground natural gas storage facility. Each operator of an UNGSF must submit an annual report through U.S. Department of Transportation Form PHMSA F 7100.4-1. This report must be submitted each year, no later than March 15, for the preceding calendar year. See the report submission requirements in subsection (5)(A). The annual report form *[(August 2017)]* is incorporated by reference in subsection (5)(G).

(11) National Registry of Pipeline and LNG Operators. (191.22)

(A) OPID request.

1. Effective January 1, 2012, each operator of a gas pipeline, gas pipeline facility, UNGSF, LNG plant, or LNG facility must obtain from PHMSA an Operator Identification Number (OPID). An OPID is assigned to an operator for the pipeline, pipeline facility, or pipeline system for which the operator has primary responsibility. To obtain an OPID, an operator must complete an OPID Assignment Request (U.S. Department of Transportation Form PHMSA F 1000.1) through the National Registry of Operators at <https://portal.phmsa.dot.gov> unless an alternative reporting method is authorized in accordance with subsection (5)(D). A copy of each submission to PHMSA must also be submitted concurrently to designated commission personnel – see addresses in subsection (5)(E).

2. The OPID Assignment Request form *[(January 2020)]* is incorporated by reference in subsection (5)(G).

(C) Changes. Each operator of a gas pipeline, gas pipeline facility, UNGSF, LNG plant, or LNG facility must notify PHMSA electronically through the National Registry of Operators at <https://portal.phmsa.dot.gov> of certain events. A copy of each online notification must also be submitted concurrently to designated commission personnel – see addresses in subsection (5)(E).

1. An operator must notify PHMSA of any of the following events not later than sixty (60) days before the event occurs:

A. Construction or any planned rehabilitation, replacement, modification, upgrade, uprate, or update of a facility, other than a section of line pipe, that costs ten (10) million dollars or more. If sixty- (60-) day notice is not feasible because of an emergency, an operator must notify PHMSA as soon as practicable;

B. Construction of ten (10) or more miles of a new pipeline;

C. Construction of a new LNG plant, LNG facility, or UNGSF;

D. Maintenance of an UNGSF that involves the plugging or abandonment of a well, or that requires a workover rig and costs two hundred thousand dollars (\$200,000) or more for an individual well, including its wellhead. If sixty- (60-) day notice is not feasible due to an emergency, an operator must promptly respond to the emergency and notify PHMSA as soon as practicable;

E. Reversal of product flow direction when the reversal is expected to last more than thirty (30) days. This notification is not required for pipeline systems already designed for bi-directional flow; or

F. A pipeline converted for service under 20 CSR 4240-40.030(1)(H) [(192.14)], or a change in commodity as reported on the annual report as required by section (10) [(191.17)].

2. An operator must notify PHMSA of any of the following events not later than sixty (60) days after the event occurs:

A. A change in the primary entity responsible (i.e., with an assigned OPID) for managing or administering a safety program required by this rule covering pipeline facilities operated under multiple OPIDs;

B. A change in the name of the operator;

C. A change in the entity (e.g., company, municipality) responsible for an existing pipeline, pipeline segment, pipeline facility, UNGSF, or LNG facility;

D. The acquisition or divestiture of fifty (50) or more miles of a pipeline or pipeline system subject to 20 CSR 4240-40.030; or

E. The acquisition or divestiture of an existing UNGSF, or an LNG plant, or LNG facility subject to 49 CFR Part 193.

(12) Reporting Safety-Related Conditions. (191.23)

(A) Except as provided in subsection (12)(B), each operator must report in accordance with section (13) [(191.25)] the existence of any of the following safety-related conditions involving facilities in service:

1. In the case of the pipeline (other than an LNG facility) that operates at a hoop stress of twenty percent (20%) or more of its specified minimum yield strength, general corrosion that has reduced the wall thickness to less than that required for the maximum allowable operating pressure and localized corrosion pitting to a degree where leakage might result;

2. In the case of an UNGSF, general corrosion that has reduced the wall thickness of any metal component to less than that required for the well's maximum operating pressure, or localized corrosion pitting to a degree where leakage might result;

3. Unintended movement or abnormal loading by environmental causes, such as an earthquake, landslide, or flood, that impairs the serviceability of a pipeline or the structural integrity or reliability of an UNGSF, or an LNG facility that contains, controls, or processes gas or LNG;

4. Any crack or other material defect that impairs the structural integrity or reliability of an UNGSF or an LNG facility that contains, controls, or processes gas or LNG;

5. Any material defect or physical damage that impairs the serviceability of a pipeline that operates at a hoop stress

of twenty percent (20%) or more of its specified minimum yield strength or an UNGSF;

6. Any malfunction or operating error that causes the pressure, plus the margin (build-up) allowed for operation of pressure limiting or control devices, to exceed either the maximum allowable operating pressure of a distribution or gathering line, the maximum well allowable operating pressure of an UNGSF, or the maximum allowable working pressure of an LNG facility that contains or processes gas or LNG;

7. A leak in a pipeline, UNGSF, or LNG facility that contains or processes gas or LNG that constitutes an emergency;

8. Inner tank leakage, ineffective insulation, or frost heave that impairs the structural integrity of an LNG storage tank;

9. Any safety-related condition that could lead to an imminent hazard and causes (either directly or indirectly by remedial action of the operator), for purposes other than abandonment, a twenty percent (20%) or more reduction in operating pressure or shutdown of operation of a pipeline, UNGSF, or an LNG facility that contains or processes gas or LNG;

10. For transmission pipelines only, each exceedance of the maximum allowable operating pressure that exceeds the margin (build-up) allowed for operation of pressure-limiting or control devices as specified in the applicable requirements of 20 CSR 4240-40.030(4)(FF) and (13)(R) [(192.201 and 192.739)]. The reporting requirement of this paragraph is not applicable to gathering lines, distribution lines, LNG facilities, or underground natural gas storage facilities (see paragraph (12)(A)6.); and

11. Any malfunction or operating error that causes the pressure of a UNGSF using a salt cavern for natural gas storage to fall below its minimum allowable operating pressure, as defined by the facility's [S]tate or [F]ederal operating permit or certificate, whichever pressure is higher.

(B) A report is not required for any safety-related condition that –

1. Exists on a master meter system, a reporting-regulated gathering pipeline, a Type C gas gathering pipeline with an outside diameter of 12.75 inches or less, a Type C gathering pipeline covered by the exception in [49 CFR 192.9(f)(1)] 20 CSR 4240-40.030(1)(E)2.E.(I), or a customer-owned service line;

2. Is an incident or results in an incident before the deadline for filing the safety-related condition report;

3. Exists on a pipeline (other than an UNGSF or an LNG facility) that is more than two hundred twenty (220) yards (two hundred (200) meters) from any building intended for human occupancy or outdoor place of assembly, except that reports are required for conditions within the right-of-way of an active railroad, paved road, street, or highway;

4. Exists on an UNGSF, where a well or wellhead is isolated, allowing the reservoir or cavern and all other components of the facility to continue to operate normally and without pressure restriction; or

5. Is corrected by repair or replacement in accordance with applicable safety standards before the deadline for filing the safety-related condition report. Notwithstanding this exception, a report must be filed for –

A. Conditions under paragraph (12)(A)1., unless the condition is localized corrosion pitting on an effectively coated and cathodically protected pipeline; and

B. Any condition under paragraph (12)(A)10.

*Feb. 5, 1970, effective Feb. 26, 1970. For intervening history, please consult the **Code of State Regulations**. Amended: Filed March 19, 2025.*

**PUBLIC COST:** This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

**PRIVATE COST:** This proposed amendment will not cost private entities more than of five hundred dollars (\$500) in the aggregate.

**NOTICE TO SUBMIT COMMENTS AND NOTICE OF PUBLIC HEARING:** Anyone may file comments in support of or in opposition to this proposed amendment with the Missouri Public Service Commission, Nancy Dippell, Secretary of the Commission, PO Box 360, Jefferson City, MO 65102. To be considered, comments must be received at the commission's offices on or before June 2, 2025, and should include a reference to Commission File No. GX-2025-0249. Comments may also be submitted via a filing using the commission's electronic filing and information system at <http://www.psc.mo.gov/efis.asp>. A public hearing regarding this proposed amendment is scheduled for June 6, 2025, at 11 a.m., in Room 310 of the Governor's Office Building, 200 Madison St., Jefferson City, MO. Interested persons may appear at this hearing to submit additional comments and/or testimony in support of or in opposition to this proposed amendment, and may be asked to respond to commission questions. Any persons with special needs as addressed by the Americans with Disabilities Act should contact the Missouri Public Service Commission at least ten (10) days prior to the hearing at one (1) of the following numbers: Consumer Services Hotline 1 (800) 392-4211 or TDD Hotline 1 (800) 829-7541.

## TITLE 20 – DEPARTMENT OF COMMERCE AND INSURANCE

### Division 4240 – Public Service Commission

#### Chapter 40 – Gas Utilities and Gas Safety Standards

#### PROPOSED AMENDMENT

**20 CSR 4240-40.030 Safety Standards – Transportation of Gas by Pipeline.** The Public Service Commission is amending sections (1) – (17) and Appendix B.

**PURPOSE:** This amendment modifies the rule to address amendments of 49 CFR part 192 promulgated between January 2023 and July 2024, address technical corrections published in the **Federal Register** on June 28, 2024, pages 89 FR 53877 and 89 FR 53880, address corrections to conform to judicial review published in the **Federal Register** on January 15, 2025, page 90 FR 3713, and make clarification and editorial changes.

##### (1) General.

###### (A) What Is the Scope of this Rule? (192.1)

1. This rule prescribes minimum safety requirements for pipeline facilities and the transportation of gas in Missouri and under the jurisdiction of the commission. A table of contents is provided in Appendix E, which is included herein (at the end of this rule).

2. This rule does not apply to –

A. The gathering of gas –

(I) Through a pipeline that operates at less than zero (0) pounds per square inch gauge (psig) (0 kPa); or  
(II) Through a pipeline that is not a regulated onshore

gathering line (as determined in (1)(E)1.); or

B. Any pipeline system that transports only petroleum gas or petroleum gas/air mixtures to –

(I) Fewer than ten (10) customers, if no portion of the system is located in a public place; or

(II) A single customer, if the system is located entirely on the customer's premises (no matter if a portion of the system is located in a public place).

(B) Definitions. (192.3) As used in this rule –

1. Abandoned means permanently removed from service;

2. Active corrosion means continuing corrosion that, unless controlled, could result in a condition that is detrimental to public safety;

3. Administrator means the Administrator of the Pipeline and Hazardous Materials Safety Administration of the United States Department of Transportation to whom authority in the matters of pipeline safety have been delegated by the Secretary of the United States Department of Transportation, or his or her delegate;

4. Alarm means an audible or visible means of indicating to the controller that equipment or processes are outside operator-defined, safety-related parameters;

5. Building means any structure that is regularly or periodically occupied by people;

6. Close interval survey means a series of closely and properly spaced pipe-to-electrolyte potential measurements taken over the pipe to assess the adequacy of cathodic protection or to identify locations where a current may be leaving the pipeline that may cause corrosion and for the purpose of quantifying voltage (IR) drops other than those across the structure electrolyte boundary, such as when performed as a current interrupted, depolarized, or native survey;

7. Commission means the Missouri Public Service Commission;

8. Composite materials means materials used to make pipe or components manufactured with a combination of either steel and/or plastic and with a reinforcing material to maintain its circumferential or longitudinal strength;

9. Control room means an operations center staffed by personnel charged with the responsibility for remotely monitoring and controlling a pipeline facility;

10. Controller means a qualified individual who remotely monitors and controls the safety-related operations of a pipeline facility via a supervisory control and data acquisition (SCADA) system from a control room, and who has operational authority and accountability for the remote operational functions of the pipeline facility;

11. Customer meter means the meter that measures the transfer of gas from an operator to a consumer;

12. Designated commission personnel means the pipeline safety program manager at the address contained in 20 CSR 4240-40.020(5)(E) for correspondence;

13. Distribution center means the initial point where gas enters piping used primarily to deliver gas to customers who purchase it for consumption, as opposed to customers who purchase it for resale, for example –

A. At a metering location;

B. A pressure reduction location; or

C. Where there is a reduction in the volume of gas, such as a lateral off a transmission line;

14. Distribution line means a pipeline other than a gathering or transmission line;

15. Dry gas or dry natural gas means gas above its dew point and without condensed liquids;

16. Electrical survey means a series of closely spaced

pipe-to-soil readings over pipelines which are subsequently analyzed to identify locations where a corrosive current is leaving the pipeline, except that other indirect examination tools/methods can be used for an electrical survey included in the federal regulations in 49 CFR part 192, subpart O and appendix E (incorporated by reference in section (16));

17. Engineering critical assessment (ECA) means a documented analytical procedure based on fracture mechanics principles, relevant material properties (mechanical and fracture resistance properties), operating history, operational environment, in-service degradation, possible failure mechanisms, initial and final defect sizes, and usage of future operating and maintenance procedures to determine the maximum tolerable sizes for imperfections based upon the pipeline segment maximum allowable operating pressure;

18. Entirely replaced transmission pipeline segments means, for the purposes of subsections (4)(U) and (12)(X), where two (2) or more miles, in the aggregate, of transmission pipeline have been replaced within any five (5) contiguous miles of pipeline within any twenty-four- (24-) month period. This definition does not apply to any gathering line;

19. Feeder line means a distribution line that has a maximum allowable operating pressure (MAOP) greater than 100 psi (689 kPa) gauge that produces hoop stresses less than twenty percent (20%) of specified minimum yield strength (SMYS);

20. Follow-up inspection means an inspection performed after a repair procedure has been completed in order to determine the effectiveness of the repair and to ensure that all hazardous leaks in the area are corrected;

21. Fuel line means the customer-owned gas piping downstream from the outlet of the customer meter or operator-owned pipeline, whichever is farther downstream;

22. Gas means natural gas, flammable gas, manufactured gas, or gas which is toxic or corrosive;

23. Gathering line means a pipeline that transports gas from a current production facility to a transmission line or main;

24. Hard spot means an area on steel pipe material with a minimum dimension greater than two inches (2") (50.8 mm) in any direction and hardness greater than or equal to Rockwell 35 HRC (Brinell 327 HB or Vickers 345 HV10);

25. High-pressure distribution system means a distribution system in which the gas pressure in the main is higher than an equivalent to fourteen inches (14") water column;

26. Hoop stress means the stress in a pipe wall acting circumferentially in a plane perpendicular to the longitudinal axis of the pipe produced by the pressure in the pipe;

27. In-line inspection (ILI) means an inspection of a pipeline from the interior of the pipe using an inspection tool also called intelligent or smart pigging. This definition includes tethered and self-propelled inspection tools;

28. In-line inspection tool or instrumented internal inspection device means an instrumented device or vehicle that uses a non-destructive testing technique to inspect the pipeline from the inside in order to identify and characterize flaws to analyze pipeline integrity; also known as an intelligent or smart pig;

29. Listed specification means a specification listed in subsection I. of Appendix B, which is included herein (at the end of this rule);

30. Low-pressure distribution system means a distribution system in which the gas pressure in the main is less than or equal to an equivalent of fourteen inches (14") water column;

31. Main means a distribution line that serves as a common source of supply for more than one (1) service line;

32. Master meter system means a pipeline system for distributing gas within but not limited to a definable area (such as a mobile home park, housing project, or apartment complex) where the operator purchases metered gas from an outside source for resale through a gas distribution pipeline system. The gas distribution pipeline system supplies the ultimate consumer who either purchases the gas directly through a meter or by other means, such as by rents.

[32.]33. Maximum actual operating pressure means the maximum pressure that occurs during normal operations over a period of one (1) year;

[33.]34. Maximum allowable operating pressure (MAOP) means the maximum pressure at which a pipeline or segment of a pipeline may be operated under this rule;

[34.]35. Moderate consequence area means –

A. An onshore area that is within a “potential impact circle” as defined in 49 CFR 192.903 (incorporated by reference in section (16)), containing either –

(I) Five (5) or more buildings intended for human occupancy; or

(II) Any portion of the paved surface (including shoulders) of a designated “interstate,” “other freeway or expressway,” as well as any “other principal arterial” roadway with four (4) or more lanes, as defined in the Federal Highway Administration’s Highway Functional Classification Concepts, Criteria and Procedures, Section 3.1 (see: [https://www.fhwa.dot.gov/planning/processes/statewide/related/highway\\_functional\\_classifications/fcauab.pdf](https://www.fhwa.dot.gov/planning/processes/statewide/related/highway_functional_classifications/fcauab.pdf)), and that does not meet the definition of “high consequence area” in 49 CFR 192.903 (incorporated by reference in section (16)); and

B. The length of the moderate consequence area extends axially along the length of the pipeline from the outermost edge of the first potential impact circle containing either five (5) or more buildings intended for human occupancy; or any portion of the paved surface, including shoulders, of any designated interstate, freeway, or expressway, as well as any other principal arterial roadway with four (4) or more lanes, to the outermost edge of the last contiguous potential impact circle that contains either five (5) or more buildings intended for human occupancy, or any portion of the paved surface, including shoulders, of any designated interstate, freeway, or expressway, as well as any other principal arterial roadway with four (4) or more lanes;

[35.]36. Municipality means a city, village, or town;

[36.]37. Notification of potential rupture means the notification to, or observation by, an operator of indicia identified in subsection (12)(Y) of a potential unintentional or uncontrolled release of a large volume of gas from a pipeline. This definition does not apply to any gathering line;

[37.]38. Operator means a person who engages in the transportation of gas;

[38.]39. Person means any individual, firm, joint venture, partnership, corporation, association, county, state, municipality, political subdivision, cooperative association, or joint stock association, and including any trustee, receiver, assignee, or personal representative of them;

[39.]40. Petroleum gas means propane, propylene, butane (normal butane or isobutanes), and butylene (including isomers), or mixtures composed predominantly of these gases, having a vapor pressure not exceeding 208 psi (1434 kPa) gauge at 100°F (38°C);

[40.]41. PHMSA means the Pipeline and Hazardous Materials Safety Administration of the United States Department of Transportation;

[41.]42. Pipe means any pipe or tubing used in the

transportation of gas, including pipe-type holders;

**[42.]43.** Pipeline means all parts of those physical facilities through which gas moves in transportation, including pipe, valves, and other appurtenances attached to pipe, compressor units, metering stations, regulator stations, delivery stations, holders, and fabricated assemblies;

**[43.]44.** Pipeline environment includes soil resistivity (high or low), soil moisture (wet or dry), soil contaminants that may promote corrosive activity, and other known conditions that could affect the probability of active corrosion;

**[44.]45.** Pipeline facility means new and existing pipelines, rights-of-way, and any equipment, facility, or building used in the transportation of gas or in the treatment of gas during the course of transportation;

**[45.]46.** Reading means the highest sustained reading when testing in a bar hole or opening without induced ventilation;

**[46.]47.** Rupture-mitigation valve (RMV) means an automatic shut-off valve (ASV) or a remote-control valve (RCV) that a pipeline operator uses to minimize the volume of gas released from the pipeline and to mitigate the consequences of a rupture. This definition does not apply to any gathering line;

**[47.]48.** Service line means a distribution line that transports gas from a common source of supply to an individual customer, to two (2) adjacent or adjoining residential or small commercial customers, or to multiple residential or small commercial customers served through a meter header or manifold. A service line ends at the outlet of the customer meter or at the connection to a customer's piping, whichever is further downstream, or at the connection to customer piping if there is no meter;

**[48.]49.** Service regulator means the device on a service line that controls the pressure of gas delivered from a higher pressure to the pressure provided to the customer. A service regulator may serve one (1) customer or multiple customers through a meter header or manifold;

**[49.]50.** SMYS means specified minimum yield strength is –

A. For steel pipe manufactured in accordance with a listed specification, the yield strength specified as a minimum in that specification; or

B. For steel pipe manufactured in accordance with an unknown or unlisted specification, the yield strength determined in accordance with paragraph (3)(D)2. [(192.107(b))];

**[50.]51.** Supervisory control and data acquisition (SCADA) system means a computer-based system or systems used by a controller in a control room that collects and displays information about a pipeline facility and may have the ability to send commands back to the pipeline facility;

**[51.]52.** Sustained reading means the reading taken on a combustible gas indicator unit after adequately venting the test hole or opening;

**[52.]53.** Transmission line means a pipeline or connected series of pipelines, other than a gathering line, that –

A. Transports gas from a gathering pipeline or storage facility to a distribution center, storage facility, or large volume customer that is not downstream from a distribution center (A large volume customer may receive similar volumes of gas as a distribution center, and includes factories, power plants, and institutional users of gas.);

B. Has an MAOP of twenty percent (20%) or more of SMYS;

C. Transports gas within a storage field; or

D. Is voluntarily designated by the operator as a

transmission pipeline;

**[53.]54.** Transportation of gas means the gathering, transmission, or distribution of gas by pipeline or the storage of gas, in or affecting intrastate, interstate, or foreign commerce;

**[54.]55.** Tunnel means a subsurface passageway large enough for a man to enter;

**[55.]56.** Vault or manhole means a subsurface structure that a man can enter;

**[56.]57.** Weak link means a device or method used when pulling polyethylene pipe, typically through methods such as horizontal directional drilling, to ensure that damage will not occur to the pipeline by exceeding the maximum tensile stresses allowed;

**[57.]58.** Welder means a person who performs manual or semi-automatic welding;

**[58.]59.** Welding operator means a person who operates machine or automatic welding equipment;

**[59.]60.** Wrinkle bend means a bend in the pipe that –

A. Was formed in the field during construction such that the inside radius of the bend has one or more ripples with –

(I) An amplitude greater than or equal to one and one-half (1.5) times the wall thickness of the pipe, measured from peak to valley of the ripple; or

(II) With ripples less than one and one-half (1.5) times the wall thickness of the pipe and with a wrinkle length (peak to peak) to wrinkle height (peak to valley) ratio under twelve (12); and

B. If the length of the wrinkle bend cannot be reliably determined, then wrinkle bend means a bend in the pipe where  $(h/D)^*100$  exceeds 2 when S is less than 37,000 psi (255 MPa), where  $(h/D)^*100$  exceeds  $(47,000-S)/10,000 + 1$  for psi  $[(324-S)/69 + 1$  for MPa] when S is greater than 37,000 psi (255 MPa) but less than 47,000 psi (324 MPa), and where  $(h/D)^*100$  exceeds 1 when S is 47,000 psi (324 MPa) or more. Where –

(I) D = Outside diameter of the pipe, in. (mm);

(II) h = Crest-to-trough height of the ripple, in. (mm); and

(III) S = Maximum operating hoop stress, psi (S/145, MPa); and

**[60.]61.** Yard line means an underground fuel line that transports gas from the service line to the customer's building. If multiple buildings are being served, building means the building nearest to the connection to the service line. For purposes of this definition, if aboveground fuel line piping at the meter location is located within five feet (5') of a building being served by that meter, it will be considered to the customer's building and no yard line exists. At meter locations where aboveground fuel line piping is located greater than five feet (5') from the building(s) being served, the underground fuel line from the meter to the entrance into the nearest building served by that meter will be considered the yard line and any other lines are not considered yard lines.

(D) Incorporation By Reference of the Federal Regulation at 49 CFR 192.7. (192.7)

1. As set forth in the *Code of Federal Regulations* (CFR) dated October 1, [2021] 2023, and the subsequent amendment 192-[132]135 (published in *Federal Register* on [August 24, 2022] April 29, 2024, page [87]89 FR [52224] 33264), the federal regulation at 49 CFR 192.7 is incorporated by reference and made a part of this rule. This rule does not incorporate any subsequent amendments to 49 CFR 192.7.

2. The *Code of Federal Regulations* and the *Federal Register* are published by the Office of the Federal Register, National Archives and Records Administration, 8601 Adelphi Road, College Park, MD 20740-6001. The October 1, [2021] 2023,

version of 49 CFR part 192 is available at [<https://www.govinfo.gov/citation>] <https://www.govinfo.gov/content/pkg/CFR-2023-title49-vol3/pdf/CFR-2023-title49-vol3-part192.pdf>. The *Federal Register* publication on page [87] 89 FR [52224] 33264 is available at [<https://www.govinfo.gov/content/pkg/FR-2022-08-24/pdf/2022-17031.pdf>] <https://www.govinfo.gov/content/pkg/FR-2024-04-29/pdf/2024-08624.pdf>.

3. The regulation at 49 CFR 192.7 provides a listing of the documents that are incorporated by reference partly or wholly in 49 CFR part 192, which is the federal counterpart and foundation for this rule. All incorporated materials are available for inspection from several sources, including the following sources:

A. The Office of Pipeline Safety, Pipeline and Hazardous Materials Safety Administration, 1200 New Jersey Avenue SE, Washington, DC 20590. For more information, contact 202-366-4046 or go to the PHMSA website at [www.phmsa.dot.gov/pipeline/regs](http://www.phmsa.dot.gov/pipeline/regs);

B. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, go to the NARA website at [www.archives.gov/federal-register/cfr/ibr-locations.html](http://www.archives.gov/federal-register/cfr/ibr-locations.html) or call 202-741-6030 or 866-272-6272; and

C. Copies of standards incorporated by reference can also be purchased or are otherwise made available from the respective standards-developing organizations listed in 49 CFR 192.7.

4. Federal amendment 192-94 (published in *Federal Register* on June 14, 2004, page 69 FR 32886) moved the listing of incorporated documents to 49 CFR 192.7 from 49 CFR part 192-Appendix A, which is now "Reserved." This listing of documents was in Appendix A to this rule prior to the 2008 amendment of this rule. As of the 2008 amendment, Appendix A to this rule is also "Reserved" and included herein.

(E) Gathering Lines.

1. How are Gathering Pipelines and Regulated Gathering Pipelines Determined? (192.8)

A. An operator must use API RP 80 (incorporated by reference in 49 CFR 192.7 and adopted in (1)(D)), to determine if a pipeline (or part of a connected series of pipelines) is a gathering line. The determination is subject to the limitations listed below. After making this determination, an operator must determine if the gathering line is a regulated gathering line under paragraph (1)(E)1.

(I) The beginning of gathering, under section 2.2(a) (1) of API RP 80, may not extend beyond the furthermost downstream point in a production operation as defined in section 2.3 of API RP 80. This furthermost downstream point does not include equipment that can be used in either production or transportation, such as separators or dehydrators, unless that equipment is involved in the processes of "production and preparation for transportation or delivery of hydrocarbon gas" within the meaning of "production operation."

(II) The endpoint of gathering, under section 2.2(a)(1)(A) of API RP 80, may not extend beyond the first downstream natural gas processing plant, unless the operator can demonstrate, using sound engineering principles, that gathering extends to a further downstream plant.

(III) If the endpoint of gathering, under section 2.2(a)(1)(C) of API RP 80, is determined by the commingling of gas from separate production fields, the fields may not be more than fifty (50) miles from each other, unless the [A] administrator finds a longer separation distance is justified in a particular case (see 49 CFR 190.9).

(IV) The endpoint of gathering, under section 2.2(a)

(1)(D) of API RP 80, may not extend beyond the furthermost downstream compressor used to increase gathering line pressure for delivery to another pipeline.

(V) For new, replaced, relocated, or otherwise changed gas gathering pipelines installed after May 16, 2022, the endpoint of gathering under sections 2.2(a)(1)(E) and 2.2.1.2.6 of API RP 80 – also known as "incidental gathering" – may not be used if the pipeline terminates ten (10) or more miles downstream from the furthermost downstream endpoint as defined in paragraphs 2.2(a)(1)(A) through (a)(1)(D) of API RP 80 and this paragraph. If an "incidental gathering" pipeline is ten (10) miles or more in length, the entire portion of the pipeline that is designated as an incidental gathering line under 2.2(a)(1)(E) and 2.2.1.2.6 of API RP 80 shall be classified as a transmission pipeline subject to rules 20 CSR 4240-40.020, 20 CSR 4240-40.030, 20 CSR 4240-40.033, and 20 CSR 4240-40.080.

B. Each operator must determine and maintain for the life of the pipeline records documenting the methodology by which it calculated the beginning and end points of each gathering pipeline it operates, as described in the second column of table 1 to part (1)(E)1.C.(II), by –

(I) November 16, 2022, or before the pipeline is placed into operation, whichever is later; or

(II) An alternative deadline approved by the Pipeline and Hazardous Materials Safety Administration (PHMSA). The operator must notify PHMSA and designated commission personnel no later than ninety (90) days in advance of the deadline in part (1)(E)1.B.(I). The notification must be made in accordance with subsection (1)(M) and must include the following information:

(a) Description of the affected facilities and operating environment;

(b) Justification for an alternative compliance deadline; and

(c) Proposed alternative deadline.

C. For purposes of 20 CSR 4240-40.020 and paragraph (1)(E)2., the term "regulated gathering pipeline" means –

(I) Each Type A, Type B, or Type C gathering pipeline (or segment of gathering pipeline) with a feature described in the second column of table 1 to part (1)(E)1.C.(II) that lies in an area described in the third column; and

(II) As applicable, additional lengths of pipeline described in the fourth column to provide a safety buffer.

**Table 1 to Part (1)(E)1.C.(II)**

| Type | Feature   | Area   | Safety Buffer  |  |
|------|---|--|--|--|
| A    | <ul style="list-style-type: none"> <li>• Metallic and the MAOP produces a hoop stress of twenty percent (20%) or more of SMYS.</li> <li>• If the stress level is unknown, an operator must determine the stress level according to the applicable provisions in section (3).</li> <li>• Non-metallic and the MAOP is more than one hundred twenty-five (125) psig (862 kPa).</li> </ul> | Class 2, 3, or 4 location (see subsection (1)(C)).   | None.  | <p>C</p> <ul style="list-style-type: none"> <li>• Outside diameter greater than or equal to 8.625 inches and any of the following:           <ul style="list-style-type: none"> <li>– Metallic and the MAOP produces a hoop stress of twenty percent (20%) or more of SMYS;</li> <li>– If the stress level is unknown, segment is metallic and the MAOP is more than one hundred twenty-five (125) psig (862 kPa); or</li> <li>– Non-metallic and the MAOP is more than one hundred twenty-five (125) psig (862 kPa).</li> </ul> </li> </ul> |
| B    | <ul style="list-style-type: none"> <li>• Metallic and the MAOP produces a hoop stress of less than twenty percent (20%) of SMYS. If the stress level is unknown, an operator must determine the stress level according to the applicable provisions in section (3).</li> <li>• Non-metallic and the MAOP is one hundred twenty-five (125) psig (862 kPa) or less.</li> </ul>            | <p>Area 1. Class 3 or 4 location.</p> <p>Area 2. An area within a Class 2 location the operator determines by using any of the following three (3) methods:</p> <ul style="list-style-type: none"> <li>(a) A Class 2 location;</li> <li>(b) An area extending one hundred fifty feet (150') (45.7 m) on each side of the centerline of any continuous one (1) mile (1.6 km) of pipeline and including more than ten (10) but fewer than forty-six (46) dwellings; or</li> <li>(c) An area extending one hundred fifty feet (150') (45.7 m) on each side of the centerline of any continuous one thousand feet (1000') (305 m) of pipeline and including five (5) or more dwellings.</li> </ul> | If the gathering pipeline is in Area 2(b) or 2(c), the additional lengths of line extend upstream and downstream from the area to a point where the line is at least one hundred fifty feet (150') (45.7 m) from the nearest dwelling in the area. However, if a cluster of dwellings in Area 2(b) or 2(c) qualifies a pipeline as Type B, the Type B classification ends one hundred fifty feet (150') (45.7 m) from the nearest dwelling in the cluster. | <p>R</p> <p>All other gathering lines.</p>   |

(III) A Type R gathering line is subject to reporting requirements under 20 CSR 4240-40.020 but is not a regulated gathering line under this rule.

(IV) For the purpose of identifying Type C lines in table 1 to part (1)(E)1.C.(II), if an operator has not calculated MAOP consistent with the methods at paragraph (12)(M)1. or subparagraph (12)(M)3.A., the operator must either –

(a) Calculate MAOP consistent with the methods at paragraph (12)(M)1. or subparagraph (12)(M)3.A.; or

(b) Use as a substitute for MAOP the highest operating pressure to which the segment was subjected during the preceding five (5) operating years.

## 2. What Requirements Apply to Gathering Pipelines? (192.9)

A. Requirements. An operator of a gathering line must follow the safety requirements of this rule as prescribed by this paragraph.

B. Type A lines. An operator of a Type A regulated gathering line must comply with the requirements of this rule applicable to transmission lines, except the requirements in (1)(G)4., (4)(HH), (6)(H)5., (7)(J)3.–6., (9)(G)6.–9., (9)(I)4. and 6., (9)(M)3., (9)(S)3., (9)(X), [(9)(Y).], (10)(K), (12)(E), (12)(H)3., (12)(M)5., (12)(U), (13)(DD), (13)(EE), (13)(GG), and section (16) – Pipeline Integrity Management for Transmission Lines (Subpart O). However, an operator of a Type A regulated gathering line in a Class 2 location may demonstrate compliance with subsection (12)(D) by describing the processes it uses to determine the qualification of persons performing operations and maintenance tasks. Further, operators of Type A regulated gathering lines are exempt from the requirements of (4)(U)4.–6., (12)(W), (12)(L)2.–4., (12)(X), (12)(Y), (12)(Z), and (13)(U)3.–6. Lastly, operators of Type A regulated gathering lines are exempt from the requirements of subsection (12)(J) (but an operator of a Type A regulated gathering line must comply with the requirements of subsection (12)(J), effective February 28, 2023).

C. Type B lines. An operator of a Type B regulated gathering line must comply with the following requirements:

(I) If a line is new, replaced, relocated, or otherwise changed, the design, installation, construction, initial

inspection, and initial testing must be in accordance with requirements of this rule applicable to transmission lines. Compliance with (2)(G), (3)(M), (4)(U)4. and 5., (4)(II), (5)(D)3., (6)(H)5., (7)(J)3.–6., (10)(K), (12)(X), and (12)(Z) is not required;

(II) If the pipeline is metallic, control corrosion according to requirements of section (9) applicable to transmission lines, except the requirements in (9)(G)6.–9., (9)(I)4. and 6., (9)(M)3., (9)(S)3., **and (9)(X)[, and (9)(Y)]**;

(III) If the pipeline contains plastic pipe or components, the operator must comply with all applicable requirements of this rule for plastic pipe components;

(IV) Carry out a damage prevention program under subsection (12)(I);

(V) Establish a public education program under subsection (12)(K);

(VI) Establish the MAOP of the line under paragraphs (12)(M)1., 2., and 3.;

(VII) Install and maintain line markers according to the requirements for transmission lines in subsection (13)(E); and

(VIII) Conduct leakage surveys in accordance with the requirements for transmission lines in subsection (13)(D), using leak-detection equipment, and promptly repair hazardous leaks in accordance with paragraph (13)(B)3.

D. Type C lines. The requirements for Type C gathering lines are as follows:

(I) An operator of a Type C gathering line with an outside diameter greater than or equal to eight and five-eighths inches (8.625") must comply with the following requirements:

(a) Except as provided in subparagraph (1)(E)2.G. for pipe and components made with composite materials, the design, installation, construction, initial inspection, and initial testing of a new, replaced, relocated, or otherwise changed Type C gathering line, must be done in accordance with the requirements in sections (2)–(7) and (10) applicable to transmission lines. Compliance with (2)(G), (3)(M), (4)(U)4. and 5., (4)(II), (5)(D)3., (6)(H)5., (7)(J)3.–6., (10)(K), (12)(X), and (12)(Z) is not required;

(b) If the pipeline is metallic, control corrosion according to requirements of section (9) applicable to transmission lines, except the requirements in (9)(G)6.–9., (9)(I)4. and 6., (9)(M)3., (9)(S)3., **and (9)(X)[, and (9)(Y)]**;

(c) Carry out a damage prevention program under subsection (12)(I);

(d) Develop and implement procedures for emergency plans in accordance with the requirements of subsection (12)(J), effective February 28, 2023;

(e) Develop and implement a written public awareness program in accordance with subsection (12)(K);

(f) Install and maintain line markers according to the requirements for transmission lines in subsection (13)(E); and

(g) Conduct leakage surveys in accordance with the requirements for transmission lines in subsection (13)(D) using leak-detection equipment, and promptly repair hazardous leaks in accordance with paragraph (13)(B)3.; and

(II) An operator of a Type C gathering line with an outside diameter greater than twelve and three-quarters inches (12.75") must comply with the requirements in part (1)(E)2.D.(I) and the following:

(a) If the pipeline contains plastic pipe, the operator must comply with all applicable requirements of this rule for plastic pipe or components. This does not include pipe and components made of composite materials that incorporate plastic in the design; and

(b) Establish the MAOP of the pipeline under paragraph (12)(M)1. or 3. and maintain records used to establish the MAOP for the life of the pipeline.

E. Exceptions.

(I) Compliance with subparts (1)(E)2.D.(I)(b), (e), (f), and (g) and subparts (1)(E)2.D.(II)(a) and (b) is not required for pipeline segments that are sixteen inches (16") or less in outside diameter if one (1) of the following criteria are met:

(a) Method 1. The segment is not located within a potential impact circle containing a building intended for human occupancy or other impacted site. The potential impact circle must be calculated as specified in 49 CFR 192.903 (incorporated by reference in section (16)), except that a factor of 0.73 must be used instead of 0.69. The MAOP used in this calculation must be determined and documented in accordance with subpart (1)(E)2.D.(II)(b); and

(b) Method 2. The segment is not located within a class location unit (see subsection (1)(C)) containing a building intended for human occupancy or other impacted site.

(II) Subpart (1)(E)2.D.(I)(a) is not applicable to pipeline segments forty feet (40') or shorter in length that are replaced, relocated, or changed on a pipeline existing on or before May 16, 2022.

(III) For purposes of this paragraph, the term "building intended for human occupancy or other impacted site" means any of the following:

(a) Any building that may be occupied by humans, including homes, office buildings, factories, outside recreation areas, plant facilities, etc.;

(b) A small, well-defined outside area (such as a playground, recreation area, outdoor theater, or other place of public assembly) that is occupied by twenty (20) or more persons on at least five (5) days a week for ten (10) weeks in any twelve- (12-) month period (the days and weeks need not be consecutive); or

(c) Any portion of the paved surface, including shoulders, of a designated interstate, other freeway, or expressway, as well as any other principal arterial roadway with four (4) or more lanes.

F. Compliance deadlines. An operator of a regulated gathering line must comply with the following deadlines, as applicable.

(I) An operator of a new, replaced, relocated, or otherwise changed line must be in compliance with the applicable requirements of this paragraph by the date the line goes into service, unless an exception in subsection (1)(G) applies.

(II) If a Type A or Type B regulated gathering pipeline existing on April 14, 2006, was not previously subject to this rule, an operator has until the date stated in the second column to comply with the applicable requirement for the pipeline listed in the first column, unless the *[A]administrator finds a later deadline is justified in a particular case[.]*

| Requirement   | Compliance Deadline |
|---|---------------------|
| (i) Control corrosion according to requirements for transmission lines in section (9).      | April 15, 2009.     |
| (ii) Carry out a damage prevention program under subsection (12)(I).                        | October 15, 2007.   |
| (iii) Establish MAOP under subsection (12)(M).  | October 15, 2007.   |
| (iv) Install and maintain line markers under subsection (13)(E).                            | April 15, 2008.     |
| (v) Establish a public education program under subsection (12)(K).                          | April 15, 2008.     |
| (vi) Other provisions of this rule as required by subparagraph (1)(E)2.B. for Type A lines. | April 15, 2009.     |

(III) If, after April 14, 2006, a change in class location or increase in dwelling density causes a gathering pipeline to become a Type A or Type B regulated gathering line, the operator has one (1) year for Type B lines and two (2) years for Type A lines after the pipeline becomes a regulated gathering pipeline to comply with this paragraph.

(IV) If a Type C gathering pipeline existing on or before May 16, 2022, was not previously subject to this rule, an operator must comply with the applicable requirements of this paragraph, except for subparagraph (1)(E)2.G., on or before –

(a) May 16, 2023; or

(b) An alternative deadline approved by PHMSA.

The operator must notify PHMSA and designated commission personnel no later than ninety (90) days in advance of the deadline in part (1)(E)1.B.(I). The notification must be made in accordance with subsection (1)(M) and must include a description of the affected facilities and operating environment, the proposed alternative deadline for each affected requirement, the justification for each alternative compliance deadline, and actions the operator will take to ensure the safety of affected facilities.

(V) If, after May 16, 2022, a change in class location, an increase in dwelling density, or an increase in MAOP causes a pipeline to become a Type C gathering pipeline, or causes a Type C gathering pipeline to become subject to additional Type C requirements (see subparagraph (1)(E)2.E.), the operator has one (1) year after the pipeline becomes subject to the additional requirements to comply with this paragraph.

G. Composite materials. Pipe and components made with composite materials not otherwise authorized for use under this rule may be used on Type C gathering pipelines if the following requirements are met:

(I) Steel and plastic pipe and components must meet the installation, construction, initial inspection, and initial testing requirements in sections (2)–(7) and (10) applicable to transmission lines;

(II) Operators must notify PHMSA in accordance with subsection (1)(M) at least ninety (90) days prior to installing new or replacement pipe or components made of composite materials otherwise not authorized for use under this rule in a Type C gathering pipeline. The notifications required by this paragraph must include a detailed description of the pipeline facilities in which pipe or components made of composite materials would be used, including –

(a) The beginning and end points (stationing by footage and mileage with latitude and longitude coordinates) of the pipeline segment containing composite pipeline material and the counties and states in which it is located;

(b) A general description of the right-of-way including high consequence areas, as defined in 49 CFR

192.905 (incorporated by reference in section (16));  
(c) Relevant pipeline design and construction information including the year of installation, the specific composite material, diameter, wall thickness, and any manufacturing and construction specifications for the pipeline;

(d) Relevant operating information, including MAOP, leak and failure history, and the most recent pressure test (identification of the actual pipe tested, minimum and maximum test pressure, duration of test, any leaks and any test logs and charts) or assessment results;

(e) An explanation of the circumstances that the operator believes make the use of composite pipeline material appropriate and how the design, construction, operations, and maintenance will mitigate safety and environmental risks;

(f) An explanation of procedures and tests that will be conducted periodically over the life of the composite pipeline material to document that its strength is being maintained;

(g) Operations and maintenance procedures that will be applied to the alternative materials. These include procedures that will be used to evaluate and remediate anomalies and how the operator will determine safe operating pressures for composite pipe when defects are found;

(h) An explanation of how the use of composite pipeline material would be in the public interest; and

(i) A certification signed by a vice president (or equivalent or higher officer) of the operator's company that operation of the applicant's pipeline using composite pipeline material would be consistent with pipeline safety; and

(III) Repairs or replacements using materials authorized under this rule do not require notification under this paragraph.

(F) Petroleum Gas Systems. (192.11)

1. Each plant that supplies petroleum gas by pipeline to a natural gas distribution system must meet the requirements of this rule and [or] NFPA 58 [and] or NFPA 59 (**both** incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), **based on the scope and applicability statements in those standards**.

2. Each pipeline system subject to this rule that transports only petroleum gas or petroleum gas/air mixtures must meet the requirements of this rule and [or] NFPA 58 [and] or NFPA 59 (**both** incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), **based on the scope and applicability statements in those standards**.

3. In the event of a conflict between this rule and NFPA 58 [and] or NFPA 59 (**both** incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), NFPA 58 [and] or NFPA 59 shall prevail if applicable based on the scope and applicability statements in those standards.

(G) What General Requirements Apply to Pipelines Regulated Under this Rule? (192.13)

1. No person may operate a segment of pipeline listed in the first column that is readied for service after the date in the second column, unless –

A. The pipeline has been designed, installed, constructed, initially inspected, and initially tested in accordance with this rule; or

B. The pipeline qualifies for use under this rule in accordance with subsection (1)(H). [(192.14)]

| Pipeline  | Date           |
|---|----------------|
| Regulated onshore gathering pipeline to which this rule did not apply until April 14, 2006 (see (1)(E)) | March 15, 2007 |
| Regulated onshore gathering pipeline to which this rule did not apply until May 16, 2022 (see (1)(E))   | May 16, 2023   |
| All other pipelines   | March 12, 1971 |

2. No person may operate a segment of pipeline listed in the first column that is replaced, relocated, or otherwise changed after the date in the second column, unless that replacement, relocation, or change has been made according to the requirements in this rule.

| Pipeline  | Date              |
|---|-------------------|
| Regulated onshore gathering pipeline to which this rule did not apply until April 14, 2006 (see (1)(E)) | March 15, 2007    |
| Regulated onshore gathering pipeline to which this rule did not apply until May 16, 2022 (see (1)(E))   | May 16, 2023      |
| All other pipelines   | November 12, 1970 |

3. Each operator shall maintain, modify as appropriate, and follow the plans, procedures, and programs that it is required to establish under this rule.

4. Each operator of a gas transmission pipeline must evaluate and mitigate, as necessary, significant changes that pose a risk to safety or the environment through a management of change process. Each operator of a gas transmission pipeline must develop and follow a management of change process, as outlined in ASME/ANSI B31.8S, section 11 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), that addresses technical, design, physical, environmental, procedural, operational, maintenance, and organizational changes to the pipeline or processes, whether permanent or temporary. A management of change process must include the following: reason for change, authority for approving changes, analysis of implications, acquisition of required work permits, documentation, communication of change to affected parties, time limitations, and qualification of staff. For pipeline segments other than those covered in section (16) – Pipeline Integrity Management for Transmission Lines (Subpart O), this management of change process must be implemented by February 26, 2024. The requirements of this paragraph do not apply to gas gathering pipelines. Operators may request an extension of up to one (1) year by submitting a notification to PHMSA at least ninety (90) days before February 26, 2024, in accordance with subsection (1)(M). The notification must include a reasonable and technically justified basis, an up-to-date plan for completing all actions required by this subsection, the reason for the requested extension, current safety or mitigation status of the pipeline segment, the proposed completion date, and any needed temporary safety measures to mitigate the impact on safety.

5. This section and sections (9) and (11)–(17) apply regardless of installation date. The requirements within other sections of this rule apply regardless of the installation date only when specifically stated as such.

## (2) Materials.

### (B) General. (192.53)

#### 1. Materials for pipe and components must be –

*[1.]A.* Able to maintain the structural integrity of the pipeline under temperature and other environmental conditions that may be anticipated;

*[2.]B.* Chemically compatible with any gas that they transport and with any other material in the pipeline with

which they are in contact;

*[3.]C.* Qualified in accordance with the applicable requirements of this section; and

*[4.]D.* Only of steel or polyethylene for pipe for the underground construction of pipelines, except *[that other previously]* –

*(I)* Previously qualified materials may be used for repair of pipe constructed of the same material; and

*(II)* Composite materials as defined in subsection (1)(B) may be used for pipe in Type C gathering lines when permitted by paragraph (1)(E)2. and subject to prior notifications to PHMSA and designated commission personnel in accordance with paragraph (1)(E)2. and subsection (1)(M).

*[5.]J.* Other piping materials may be used with approval of the commission.

### (G) Records: Material Properties. (192.67)

1. For steel transmission pipelines installed after July 1, 2020, an operator must collect or make, and retain for the life of the pipeline, records that document the physical characteristics of the pipeline, including diameter, yield strength, ultimate tensile strength, wall thickness, seam type, and chemical composition of materials for pipe in accordance with subsections (2)(B) and (2)(C) *[(192.53 and 192.55)]*. Records must include tests, inspections, and attributes required by the manufacturing specifications applicable at the time the pipe was manufactured or installed.

2. For steel transmission pipelines installed on or before July 1, 2020, if operators have records that document tests, inspections, and attributes required by the manufacturing specifications applicable at the time the pipe was manufactured or installed, including diameter, yield strength, ultimate tensile strength, wall thickness, seam type, and chemical composition in accordance with subsections (2)(B) and (2)(C) *[(192.53 and 192.55)]*, operators must retain such records for the life of the pipeline.

3. For steel transmission pipeline segments installed on or before July 1, 2020, if an operator does not have records necessary to establish the MAOP of a pipeline segment, the operator may be subject to the requirements of subsection (12) (U) *[(192.624)]* according to the terms of that subsection.

### (3) Pipe Design.

#### (C) Design Formula for Steel Pipe. (192.105)

1. The design pressure for steel pipe is determined in accordance with the following formula:

$$P = (2 St/D) \times F \times E \times T$$

where –

P = Design pressure in pounds per square inch (kPa) gauge;

S = Yield strength in pounds per square inch (kPa) determined in accordance with subsection (3)(D); *[(192.107)]*

D = Nominal outside diameter of the pipe in inches (millimeters);

t = Nominal wall thickness of the pipe in inches (millimeters). If this is unknown, it is determined in accordance with subsection (3)(E) *[(192.109)]*. Additional wall thickness required for concurrent external loads in accordance with subsection (3)(B) *[(192.103)]* may not be included in computing design pressure;

F = Design factor determined in accordance with subsection (3)(F) *[(192.111)]*;

E = Longitudinal joint factor determined in accordance with subsection (3)(G) *[(192.113)]*; and

T = Temperature derating factor determined in accordance with subsection (3)(H) *[(192.115)]*.

2. If steel pipe that has been subjected to cold expansion to meet the SMYS is subsequently heated, other than by welding or stress relieving as a part of welding, the design pressure is limited to seventy-five percent (75%) of the pressure determined under paragraph (3)(C)1. if the temperature of the pipe exceeds 900 °F (482 °C) at any time or is held above 600 °F (316 °C) for more than one (1) hour.

(D) Yield Strength (S) for Steel Pipe. (192.107)

1. For pipe that is manufactured in accordance with a specification listed in subsection I of Appendix B, the yield strength to be used in the design formula in subsection (3)(C) [(192.105)] is the SMYS stated in the listed specification, if that value is known.

2. For pipe that is manufactured in accordance with a specification not listed in subsection I of Appendix B or whose specification or tensile properties are unknown, the yield strength to be used in the design formula in subsection (3)(C) [(192.105)] is one (1) of the following:

A. If the pipe is tensile tested in accordance with paragraph II-D of Appendix B, the lower of the following:

(I) Eighty percent (80%) of the average yield strength determined by the tensile tests; or

(II) The lowest yield strength determined by the tensile tests; or

B. If the pipe is not tensile tested as provided in subparagraph (3)(D)2.A., twenty-four thousand (24,000) psi (165 MPa).

(E) Nominal Wall Thickness (t) for Steel Pipe. (192.109)

1. If the nominal wall thickness for steel pipe is not known, it is determined by measuring the thickness of each piece of pipe at quarter points on one end.

2. However, if the pipe is of uniform grade, size, and thickness and there are more than ten (10) lengths, only ten percent (10%) of the individual lengths, but not less than ten (10) lengths, need to be measured. The thickness of the lengths that are not measured must be verified by applying a gauge set to the minimum thickness found by the measurement. The nominal wall thickness to be used in the design formula in subsection (3)(C) [(192.105)] is the next wall thickness found in commercial specifications that is below the average of all the measurements taken. However, the nominal wall thickness used may not be more than one and fourteen-hundredths (1.14) times the smallest measurement taken on pipe less than twenty inches (20") (508 millimeters) in outside diameter, nor more than one and eleven-hundredths (1.11) times the smallest measurement taken on pipe twenty inches (20") (508 millimeters) or more in outside diameter.

(F) Design Factor (F) for Steel Pipe. (192.111)

1. Except as otherwise provided in paragraphs (3)(F)2.-4., the design factor to be used in the design formula in subsection (3)(C) [(192.105)] is determined in accordance with the following table:

| Class Location | Design Factor (F) |
|----------------|-------------------|
| 1              | 0.72              |
| 2              | 0.60              |
| 3              | 0.50              |
| 4              | 0.40              |

2. A design factor of 0.60 or less must be used in the design formula in subsection (3)(C) [(192.105)] for steel pipe in Class 1 locations that –

A. Crosses the right-of-way of an unimproved public road without a casing;

B. Crosses without a casing, or makes a parallel encroachment on, the right-of-way of either a hard surfaced

road, a highway, a public street, or a railroad;

C. Is supported by a vehicular, pedestrian, railroad, or pipeline bridge; or

D. Is used in a fabricated assembly (including separators, mainline valve assemblies, cross-connections, and river crossing headers) or is used within five (5) pipe diameters in any direction from the last fitting of a fabricated assembly, other than a transition piece or an elbow used in place of a pipe bend which is not associated with a fabricated assembly.

3. For Class 2 locations, a design factor of 0.50 or less must be used in the design formula in subsection (3)(C) [(192.105)] for uncased steel pipe that crosses the right-of-way of a hard surfaced road, a highway, a public street, or a railroad.

4. For Class 1 and Class 2 locations, a design factor of 0.50 or less must be used in the design formula in subsection (3)(C) [(192.105)] for –

A. Steel pipe in a compressor station, regulating station, or measuring station; and

B. Steel pipe, including a pipe riser, on a platform located in inland navigable waters.

(G) Longitudinal Joint Factor (E) for Steel Pipe. (192.113)

1. The longitudinal joint factor to be used in the design formula in subsection (3)(C) is determined in accordance with the [following t] Table 1 of this paragraph (3)(G)1.[]

Table 1 to Paragraph (3)(G)1.

| Specification  | Pipe Class                  | Longitudinal Joint Factor (E) |
|--|-----------------------------|-------------------------------|
| ASTM A53/A53M (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D))   | Seamless                    | 1.00                          |
|  | Electric resistance welded  | 1.00                          |
|  | Furnace butt welded         | 0.60                          |
| ASTM A106 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D))       | Seamless                    | 1.00                          |
| ASTM A333/A333M (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)) | Seamless                    | 1.00                          |
| ASTM A381 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D))       | Electric resistance welded  | 1.00                          |
|  | Double submerged arc welded | 1.00                          |
|  | Electric fusion welded      | 1.00                          |
| ASTM A671 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D))       | Electric fusion welded      | 1.00                          |
| ASTM A672 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D))       | Electric fusion welded      | 1.00                          |
| ASTM A691 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D))       | Electric fusion welded      | 1.00                          |
| API 5L (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D))          | Seamless                    | 1.00                          |

|       |   |      |
|-------|---|------|
|       | Electric resistance welded              | 1.00 |
|       | Electric flash welded                   | 1.00 |
|       | Submerged arc welded                    | 1.00 |
|       | Furnace butt welded                     | 0.60 |
| Other | Pipe over 4 inches (102 millimeters)    | 0.80 |
| Other | Pipe 4 inches (102 millimeters) or less | 0.60 |

2. If the type of longitudinal joint cannot be determined, the joint factor to be used must not exceed that designated for "Other."

(H) Temperature Derating Factor (T) for Steel Pipe. (192.115) The temperature derating factor to be used in the design formula in subsection (3)(C) [(192.105)] is determined as follows:

| Gas Temperature in Degrees Fahrenheit (Celsius) | Temperature Derating Factor (T) |
|---|---------------------------------|
| 250 °F (121 °C) or less                         | 1.000                           |
| 300 °F (149 °C)                                 | 0.967                           |
| 350 °F (177 °C)                                 | 0.933                           |
| 400 °F (204 °C)                                 | 0.900                           |
| 450 °F (232 °C)                                 | 0.867                           |

For intermediate gas temperatures, the derating factor is determined by interpolation.

#### (I) Design of Plastic Pipe. (192.121)

1. Design Pressure. The design pressure for plastic pipe is determined in accordance with either of the following formulas:

$$P = 2S \frac{t}{(D-t)} \times DF$$

$$P = \frac{2S}{(SDR-1)} \times DF$$

where –

P = Design pressure, psi (kPa) gauge;

S = For thermoplastic pipe, the hydrostatic design base (HDB) is determined in accordance with the listed specification at a temperature equal to 73 °F (23 °C), 100 °F (38 °C), 120 °F (49 °C), or 140 °F (60 °C). In the absence of an HDB established at the specified temperature, the HDB of a higher temperature may be used in determining a design pressure rating at the specified temperature by arithmetic interpolation using the procedure in Part D.2. of PPI TR-3/2008, *HDB/PDB/SDB/MRS Policies* (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D));

t = Specified wall thickness, inches (millimeters);

D = Specified outside diameter, inches (millimeters); *[and]*

SDR = Standard dimension ratio, the ratio of the average specified outside diameter to the minimum specified wall thickness, corresponding to a value from a common numbering system that was derived from the American National Standards Institute preferred number series 10./.; **and**

DF = Design Factor, a maximum of 0.32 unless otherwise specified for a particular material in this subsection.

#### 2. General Requirements for Plastic Pipe and Components.

A. The design pressure may not exceed a gauge pressure of 100 psi (689 kPa) gauge for plastic pipe.

B. Plastic pipe may not be used where operating temperatures of the pipe will be –

(I) Below -20 °F (-29 °C), or -40 °F (-40 °C) if all pipe and pipeline components whose operating temperature will be below -20 °F (-29 °C) have a temperature rating by the manufacturer consistent with that operating temperature; or

(II) Above the temperature at which the HDB used in the design formula under this subsection is determined.

C. The wall thickness for thermoplastic pipe may not be less than 0.062 inches (1.57 millimeters).

D. All plastic pipe must have a listed HDB in accordance with PPI TR-4/2012 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

#### 3. Polyethylene (PE) Pipe Requirements.

A. The federal regulation at 49 CFR 192.121(c)(1) is not adopted in this rule. (This federal regulation permits higher design pressures for certain types of PE pipe.)

B. For PE pipe produced on or after January 22, 2019, a DF of 0.40 may be used in the design formula, provided –

(I) The design pressure does not exceed 100 psig;

(II) The material designation code is PE2708 or PE4710; (III) The pipe has a nominal size (IPS or CTS) of 24 inches or less; and

(IV) The wall thickness for a given outside diameter is not less than that listed in *[the following t]Table 1 to this part (3)(I)3.B.(IV):*

**Table 1 to Part (3)(I)3.B.(IV)**

| PE Pipe: Minimum Wall Thickness and SDR Values |                                       |  |
|--|---------------------------------------|--|
| Pipe Size (inches)                             | Minimum [w]Wall [t]Thickness (inches) | Corresponding [SDR] Dimension Ratio (values) |
| ½" CTS   | 0.090                                 | 7  |
| ¾" CTS½" IPS                                   | 0.090                                 | [9.7]9.3                                     |
| ½" IPS¾" CTS                                   | 0.090                                 | [9.3]9.7                                     |
| ¾" IPS   | 0.095                                 | 11   |
| 1" CTS   | 0.099                                 | 11   |
| 1" IPS   | 0.119                                 | 11   |
| 1 ¼" CTS                                       | 0.121                                 | 11   |
| 1 ¼" IPS                                       | 0.151                                 | 11   |
| 1 ½" IPS                                       | 0.173                                 | 11   |
| 2"   | 0.216                                 | 11   |
| 3"   | 0.259                                 | 13.5   |
| 4"   | 0.265                                 | 17   |
| 6"   | 0.315                                 | 21   |
| 8"   | 0.411                                 | 21   |
| 10"  | 0.512                                 | 21   |
| 12"  | 0.607                                 | 21   |
| 16"  | 0.762                                 | 21   |
| 18"  | 0.857                                 | 21   |
| 20"  | 0.952                                 | 21   |
| 22"  | 1.048                                 | 21   |
| 24"  | 1.143                                 | 21   |

4. The federal regulations at 49 CFR 192.121(d) through (f) are not adopted in this rule. (Those federal regulations address design requirements for types of plastic pipe other than PE pipe.)

#### (M) Records: Pipe Design. (192.127)

1. For steel transmission pipelines installed after July 1, 2020, an operator must collect or make, and retain for the life of the pipeline, records documenting that the pipe is designed to withstand anticipated external pressures and loads in accordance with subsection (3)(B) [(192.103)] and documenting that the determination of design pressure for the pipe is made in accordance with subsection (3)(C) [(192.105)].

2. For steel transmission pipelines installed on or before July 1, 2020, if operators have records documenting pipe design and the determination of design pressure in accordance with subsections (3)(B) and (3)(C) [(192.103 and 192.105)], operators must retain such records for the life of the pipeline.

3. For steel transmission pipeline segments installed on or before July 1, 2020, if an operator does not have records necessary to establish the MAOP of a pipeline segment, the operator may be subject to the requirements of subsection (12) (U) [(192.624)] according to the terms of that subsection.

#### (4) Design of Pipeline Components.

##### (D) Valves. (192.145)

1. Except for cast iron and plastic valves, each valve must meet the minimum requirements of [*ANSI/API Specification 6D* (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), or to a national or international standard that provides an equivalent performance level. A valve may not be used under operating conditions that exceed the applicable pressure-temperature ratings contained in those requirements.

2. Each cast iron and plastic valve must comply with the following:

A. The valve must have a maximum service pressure rating for temperatures that equal or exceed the maximum service temperature; and

B. The valve must be tested as part of the manufacturing, as follows:

(I) With the valve in the fully open position, the shell must be tested with no leakage to a pressure at least one and one-half (1.5) times the maximum service rating;

(II) After the shell test, the seat must be tested to a pressure not less than one and one-half (1.5) times the maximum service pressure rating. Except for swing check valves, test pressure during the seat test must be applied successively on each side of the closed valve with the opposite side open. No visible leakage is permitted; and

(III) After the last pressure test is completed, the valve must be operated through its full travel to demonstrate freedom from interference.

3. Each valve must be able to meet the anticipated operating conditions.

4. No valve having shell (body, bonnet, cover, and/or end flange) components made of ductile iron may be used at pressures exceeding eighty percent (80%) of the pressure ratings for comparable steel valves at their listed temperature. However, a valve having shell components made of ductile iron may be used at pressures up to eighty percent (80%) of the pressure ratings for comparable steel valves at their listed temperature, if —

A. The temperature-adjusted service pressure does not exceed 1,000 psi (7 MPa) gauge; and

B. Welding is not used on any ductile iron component in the fabrication of the valve shells or their assembly.

5. No valve having shell (body, bonnet, cover, and/or end flange) components made of cast iron, malleable iron, or ductile iron may be used in the gas pipe components of compressor stations.

6. Except for excess flow valves, plastic valves installed after April 22, 2019, must meet the minimum requirements of a listed specification. A valve may not be used under operating conditions that exceed the applicable pressure and temperature ratings contained in the listed specification.

##### (E) Flanges and Flange Accessories. (192.147)

1. Each flange or flange accessory (other than cast iron) must meet the minimum requirements of ASME/ANSI B16.5 [*and* (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), or ANSI/MSS SP-44 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), or the equivalent.

2. Each flange assembly must be able to withstand the maximum pressure at which the pipeline is to be operated and to maintain its physical and chemical properties at any temperature to which it is anticipated that it might be subjected in service.

3. Each flange on a flanged joint in cast iron pipe must conform in dimensions, drilling, face, and gasket design to ASME/ANSI B16.1 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)) and be cast integrally with the pipe, valve, or fitting.

##### (H) Components Fabricated by Welding. (192.153)

1. Except for branch connections and assemblies of standard pipe and fittings joined by circumferential welds, the design pressure of each component fabricated by welding, whose strength cannot be determined, must be established in accordance with paragraph UG-101 of the *ASME Boiler and Pressure Vessel Code* (Section VIII, Division 1) (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

2. Each prefabricated unit that uses plate and longitudinal seams must be designated, constructed, and tested in accordance with the *ASME Boiler and Pressure Vessel Code (Rules for Construction of Pressure Vessels)* as defined in either Section VIII, Division 1 or 2) (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), except for the following:

A. Regularly manufactured butt-welding fittings;

B. Pipe that has been produced and tested under a specification listed in Appendix B to this rule;

C. Partial assemblies such as split rings or collars; and

D. Prefabricated units that the manufacturer certifies have been tested to at least twice the maximum pressure to which they will be subjected under the anticipated operating conditions.

3. Orange-peel bull plugs and orange-peel swages may not be used on pipelines that are to operate at a hoop stress of twenty percent (20%) or more of the SMYS of the pipe.

4. Except for flat closures designed in accordance with [*the*] *ASME Boiler and Pressure Vessel Code*, [(*Section VIII, Division 1 or Division 2*)], (*both*) incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), flat closures and fish tails may not be used on pipe that either operates at 100 psig (689 [*kPa*] kilopascals) [gauge] or more, or *that* is more than three inches (3") (76 millimeters) in nominal diameter.

5. The test requirements for a prefabricated unit or pressure vessel, defined for this paragraph as components with a design pressure established in accordance with paragraph (4)(H)1. or 2., are as follows:

A. A prefabricated unit or pressure vessel installed after July 14, 2004, is not subject to the strength testing requirements of paragraph (10)(C)2. provided the component has been tested in accordance with paragraph (4)(H)1. or 2. and with a test factor of at least 1.3 times MAOP;

B. A prefabricated unit or pressure vessel must be tested for a duration specified as follows:

(I) A prefabricated unit or pressure vessel installed after July 14, 2004, but before October 1, 2021, is exempt from paragraphs (10)(C)3. and 4. and paragraph (10)(D)3. provided it has been tested for a duration consistent with the ASME BPVC requirements referenced in paragraph (4)(H)1. or 2; and

(II) A prefabricated unit or pressure vessel installed on or after October 1, 2021, must be tested for the duration specified in either paragraph (10)(C)3. or 4., (10)(D)3., or (10)(E)1., whichever is applicable for the pipeline in which the component is being installed;

C. For any prefabricated unit or pressure vessel permanently or temporarily installed on a pipeline facility, an operator must either –

(I) Test the prefabricated unit or pressure vessel in accordance with this subsection and section (10) after it has been placed on its support structure at its final installation location. The test may be performed before or after it has been tied-in to the pipeline. Test records that meet paragraph (10)(I)1. must be kept for the operational life of the prefabricated unit or pressure vessel; or

(II) For a prefabricated unit or pressure vessel that is pressure tested prior to installation or where a manufacturer's pressure test is used in accordance with paragraph (4)(H)5., inspect the prefabricated unit or pressure vessel after it has been placed on its support structure at its final installation location and confirm that the prefabricated unit or pressure vessel was not damaged during any prior operation, transportation, or installation into the pipeline. The inspection procedure and documented inspection must include visual inspection for vessel damage, including, at a minimum, inlets, outlets, and lifting locations. Injurious defects that are an integrity threat may include dents, gouges, bending, corrosion, and cracking. This inspection must be performed prior to operation but may be performed either before or after it has been tied-in to the pipeline. If injurious defects that are an integrity threat are found, the prefabricated unit or pressure vessel must be either non-destructively tested, re-pressure tested, or remediated in accordance with the applicable requirements in this rule for a fabricated unit or with the applicable ASME BPVC requirements referenced in paragraph(s) (4)(H)1. or 2. Test, inspection, and repair records for the fabricated unit or pressure vessel must be kept for the operational life of the component. Test records must meet the requirements in paragraph (10)(I)1.;

D. An initial pressure test from the prefabricated unit or pressure vessel manufacturer may be used to meet the requirements of this subsection with the following conditions:

(I) The prefabricated unit or pressure vessel is newly-manufactured and installed on or after October 1, 2021, except as provided in part (4)(H)5.D.(II);

(II) An initial pressure test from the fabricated unit or pressure vessel manufacturer or other prior test of a new or existing prefabricated unit or pressure vessel may be used for a component that is temporarily installed in a pipeline facility in order to complete a testing, integrity assessment, repair, odorization, or emergency response-related task, including noise or pollution abatement. The temporary component must be promptly removed after that task is completed. If operational and environmental constraints require leaving a temporary prefabricated unit or pressure vessel under this paragraph in place for longer than thirty (30) days, the operator must notify PHMSA and designated commission personnel in accordance with subsection (1)(M);

(III) The manufacturer's pressure test must meet the minimum requirements of this rule; and

(IV) The operator inspects and remediates the

prefabricated unit or pressure vessel after installation in accordance with part (4)(H)5.C.(II);

E. An existing prefabricated unit or pressure vessel that is temporarily removed from a pipeline facility to complete a testing, integrity assessment, repair, odorization, or emergency response-related task, including noise or pollution abatement, and then reinstalled at the same location must be inspected in accordance with part (4)(H)5.C.(II); however, a new pressure test is not required provided no damage or threats to the operational integrity of the prefabricated unit or pressure vessel were identified during the inspection and the MAOP of the pipeline is not increased; and

F. Except as provided in part (4)(H)5.D.(II) and subparagraph (4)(H)5.E., on or after October 1, 2021, an existing prefabricated unit or pressure vessel relocated and operated at a different location must meet the requirements of this rule and the following:

(I) The prefabricated unit or pressure vessel must be designed and constructed in accordance with the requirements of this rule at the time the vessel is returned to operational service at the new location; and

(II) The prefabricated unit or pressure vessel must be pressure tested by the operator in accordance with the testing and inspection requirements of this rule applicable to newly installed prefabricated units and pressure vessels.

(M) Compressor Stations – Design and Construction. (192.163)

1. Location of compressor building. Except for a compressor building on a platform located in inland navigable waters, each main compressor building of a compressor station must be located on property under the control of the operator. It must be far enough away from adjacent property not under control of the operator to minimize the possibility of fire being communicated to the compressor building from structures on adjacent property. There must be enough open space around the main compressor building to allow the free movement of firefighting equipment.

2. Building construction. Each building on a compressor station site must be made of noncombustible materials if it contains either –

A. Pipe more than two inches (2") (51 millimeters) in diameter that is carrying gas under pressure; or

B. Gas handling equipment other than gas utilization equipment used for domestic purposes.

3. Exits. Each operating floor of a main compressor building must have at least two (2) separated and unobstructed exits located so as to provide a convenient possibility of escape and an unobstructed passage to a place of safety. Each door latch on an exit must be of a type which can be readily opened from the inside without a key. Each swinging door located in an exterior wall must be mounted to swing outward.

4. Fenced areas. Each fence around a compressor station must have at least two (2) gates located so as to provide a convenient opportunity for escape to a place of safety or have other facilities affording a similarly convenient exit from the area. Each gate located within two hundred feet (200') (61 meters) of any compressor plant building must open outward and, when occupied, must be openable from the inside without a key.

5. Electrical facilities. Electrical equipment and wiring installed in compressor stations must conform to [NFPA-70] NFPA 70 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), so far as that code is applicable.

(S) Pipe-Type and Bottle-Type Holders. (192.175)

1. Each pipe-type and bottle-type holder must be designed so as to prevent the accumulation of liquids in the holder, in connecting pipe or in auxiliary equipment that might cause

corrosion or interfere with the safe operation of the holder.

2. Each pipe-type or bottle-type holder must have a minimum clearance from other holders in accordance with the following formula:

$$\begin{aligned} C &= (3D \times P \times F)/1000 \text{ (in inches)} \\ (C) &= (3D \times P \times F)/6,895 \text{ (in millimeters)} \end{aligned}$$

where –

C = Minimum clearance between pipe containers or bottles in inches (millimeters);

D = Outside diameter of pipe containers or bottles in inches (millimeters);

P = Maximum allowable operating pressure, psi (kPa) gauge; and

F = Design factor as set forth in subsection (3)(F) [(192.111)].

(T) Additional Provisions for Bottle-Type Holders. (192.177)

1. Each bottle-type holder must be –

A. Located on a site entirely surrounded by fencing that prevents access by unauthorized persons and with minimum clearance from the fence as follows:

| Maximum Allowable Operating Pressure | Minimum Clearance<br>Feet (meters) |
|--------------------------------------|------------------------------------|
| Less than 1000 psi (7 MPa) gauge     | 25 (7.6)                           |
| 1000 psi (7 MPa) gauge or more       | 100 (31)                           |

B. Designed using the design factors set forth in subsection (3)(F) [(192.111)]; and

C. Buried with a minimum cover in accordance with subsection (7)(N). [(192.327)]

2. Each bottle-type holder manufactured from steel that is not weldable under field conditions must comply with the following:

A. A bottle-type holder made from alloy steel must meet the chemical and tensile requirements for the various grades of steel in ASTM A372/A372M (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D));

B. The actual yield-tensile ratio of the steel may not exceed 0.85;

C. Welding may not be performed on the holder after it has been heat-treated or stress-relieved, except that copper wires may be attached to the small diameter portion of the bottle end closure for cathodic protection if a localized Thermit welding process is used;

D. The holder must be given a mill hydrostatic test at a pressure that produces a hoop stress at least equal to eighty-five percent (85%) of the SMYS; and

E. The holder, connection pipe, and components must be leak tested after installation as required by section (10).

(CC) Protection Against Accidental Overpressuring. (192.195)

1. General requirements. Except as provided in subsection (4)(DD) [(192.197)], each pipeline that is connected to a gas source so that the maximum allowable operating pressure could be exceeded, as the result of pressure control failure or of some other type of failure, must have pressure relieving or pressure limiting devices that meet the requirements of subsections (4)(EE) and (FF). [(192.199 and 192.201)]

2. Additional requirements for distributions systems. Each distribution system that is supplied from a source of gas that is at a higher pressure than the maximum allowable operating pressure for the system must –

A. Have pressure regulation devices capable of meeting the pressure, load and other service conditions that will be experienced in normal operation of the system, and that could be activated in the event of failure of some portion of the system; and

B. Be designed so as to prevent accidental overpressuring.

(II) Records: Pipeline Components. (192.205)

1. For steel transmission pipelines installed after July 1, 2020, an operator must collect or make, and retain for the life of the pipeline, records documenting the manufacturing standard and pressure rating to which each valve was manufactured and tested in accordance with this section. Flanges, fittings, branch connections, extruded outlets, anchor forgings, and other components with material yield strength grades of forty-two thousand (42,000) psi (X42) or greater and with nominal diameters of greater than two inches (2") must have records documenting the manufacturing specification in effect at the time of manufacture, including yield strength, ultimate tensile strength, and chemical composition of materials.

2. For steel transmission pipelines installed on or before July 1, 2020, if operators have records documenting the manufacturing standard and pressure rating for valves, flanges, fittings, branch connections, extruded outlets, anchor forgings, and other components with material yield strength grades of forty-two thousand (42,000) psi (X42) or greater and with nominal diameters of greater than two inches (2"), operators must retain such records for the life of the pipeline.

3. For steel transmission pipeline segments installed on or before July 1, 2020, if an operator does not have records necessary to establish the MAOP of a pipeline segment, the operator may be subject to the requirements of subsection (12)(U) [(192.624)] according to the terms of that subsection.

(5) Welding of Steel in Pipelines.

(B) General.

1. Welding is only to be performed in accordance with established written welding procedures that have been qualified under subsection (5)(C) [(192.225)] to produce sound, ductile welds.

2. Welding is only to be performed by welders who are qualified under subsections (5)(D) and (E) [(192.227 and 192.229)] for the welding procedure to be used.

(C) Welding Procedures. (192.225)

1. Welding must be performed by a qualified welder or welding operator in accordance with welding procedures qualified under section 5 (**except for Note 2 in section 5.4.2.2**), section 12, Appendix A, or Appendix B of API Standard 1104 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)) or section IX of the *ASME Boiler and Pressure Vessel Code* (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)) to produce welds meeting the requirements of section (5) of this rule. The quality of the test welds used to qualify welding procedures must be determined by destructive testing in accordance with the referenced welding standard(s).

2. Each welding procedure must be recorded in detail, including the results of the qualifying tests. This record must be retained and followed whenever the procedure is used.

(E) Limitations on Welders and Welding Operators. (192.229)

1. No welder or welding operator whose qualification is based on nondestructive testing may weld compressor station pipe and components.

2. A welder or welding operator may not weld with a particular welding process unless, within the preceding six (6) calendar months, the welder or welding operator was engaged in welding with that process. Alternatively, welders or welding operators may demonstrate they have engaged in a specific welding process if they have performed a weld with that process that was tested and found acceptable under section 6, section 9, section 12, or Appendix A of API Standard 1104 (incorporated by reference in 49 CFR 192.7 and adopted in

subsection (1)(D)) within the preceding seven and one-half (7 1/2) months.

3. A welder or welding operator qualified under paragraph (5)(D)1. [(192.227(a))] –

A. May not weld on pipe to be operated at a pressure that produces a hoop stress of twenty percent (20%) or more of SMYS unless within the preceding six (6) calendar months the welder or welding operator has had one (1) weld tested and found acceptable under section 6, section 9, section 12, or Appendix A of API Standard 1104 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)). Alternatively, welders or welding operators may maintain an ongoing qualification status by performing welds tested and found acceptable under the above acceptance criteria at least twice each calendar year, but at intervals not exceeding seven and one-half (7 1/2) months. A welder or welding operator qualified under an earlier edition of a standard listed in 49 CFR 192.7 (see subsection (1)(D)) may weld, but may not requalify under that earlier edition; and

B. May not weld on pipe to be operated at a pressure that produces a hoop stress of less than twenty percent (20%) of SMYS unless the welder or welding operator is tested in accordance with subparagraph (5)(E)3.A. or requalifies under subparagraph (5)(E)4.A. or B.

4. A welder or welding operator qualified under paragraph (5)(D)2. may not weld unless –

A. Within the preceding fifteen (15) calendar months, but at least once each calendar year, the welder or welding operator has requalified under paragraph (5)(D)2.; or

B. Within the preceding seven and one-half (7 1/2) calendar months, but at least twice each calendar year, the welder or welding operator has had –

(I) A production weld cut out, tested, and found acceptable in accordance with the qualifying test; or

(II) For a welder who works only on service lines two inches (2") (51 millimeters) or smaller in diameter, two (2) sample welds tested and found acceptable in accordance with the test in subsection III. of Appendix C to this rule.

(J) Nondestructive Testing. (192.243)

1. Nondestructive testing of welds must be performed by any process, other than trepanning, that will clearly indicate the defects that may affect the integrity of the weld.

2. Nondestructive testing of welds must be performed –

A. In accordance with written procedures; and

B. By persons who have been trained and qualified in the established procedures and with the equipment employed in testing.

3. Procedures must be established for the proper interpretation of each nondestructive test of a weld to ensure the acceptability of the weld under paragraph (5)(I)3. [(192.241(c))].

4. When nondestructive testing is required under paragraph (5)(I)2. [(192.241(b))], the following percentages of each day's field butt welds, selected at random by the operator, must be nondestructively tested over their entire circumference:

A. In Class 1 locations, at least ten percent (10%);

B. In Class 2 locations, at least fifteen percent (15%);

C. In Class 3 and Class 4 locations, at crossings of major or navigable rivers and within railroad or public highway rights-of-way, including tunnels, bridges, and overhead road crossings, one hundred percent (100%) unless impracticable, in which case at least ninety percent (90%). Nondestructive testing must be impracticable for each girth weld not tested; and

D. At pipeline tie-ins, including tie-ins of replacement

sections, one hundred percent (100%).

5. Except for a welder or welding operator whose work is isolated from the principal welding activity, a sample of each welder or welding operator's work for each day must be nondestructively tested, when that testing is required under paragraph (5)(I)2. [(192.241(b))].

6. When nondestructive testing is required under paragraph (5)(I)2. [(192.241(b))], each operator must retain, for the life of the pipeline, a record showing, by milepost, engineering station, or by geographic feature, the number of girth welds made, the number nondestructively tested, the number rejected, and the disposition of the rejects.

(K) Repair or Removal of Defects. (192.245)

1. Each weld that is unacceptable under paragraph (5)(I)3. [(192.241(c))] must be removed or repaired. A weld must be removed if it has a crack that is more than eight percent (8%) of the weld length.

2. Each weld that is repaired must have the defect removed down to sound metal and the segment to be repaired must be preheated if conditions exist which would adversely affect the quality of the weld repair. After repair, the segment of the weld that was repaired must be inspected to ensure its acceptability.

3. Repair of a crack or of any defect in a previously repaired area must be in accordance with written weld repair procedures that have been qualified under subsection (5)(C) [(192.225)]. Repair procedures must provide that the minimum mechanical properties specified for the welding procedure used to make the original weld are met upon completion of the final weld repair.

(6) Joining of Materials Other Than by Welding.

(E) Copper Pipe. (192.279) Copper pipe may not be threaded[,] except [*that*] copper pipe used for joining screw fittings or valves, **which** may be threaded if the wall thickness is equivalent to the comparable size of Schedule 40 or heavier wall pipe listed in [*Table C1 of ASME/ANSI B16.5*] ASME B36.10M (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

(H) Plastic Pipe – Qualifying Persons to Make Joints. (192.285)

1. No person may make a plastic pipe joint unless that person has been qualified under the applicable joining procedure by –

A. Appropriate training or experience in the use of the procedure; and

B. Making a specimen joint from pipe sections joined according to the procedure that passes the inspection and test set forth in paragraph (6)(H)2.

2. The specimen joint must be –

A. Visually examined during and after assembly or joining and found to have the same appearance as a joint or photographs of a joint that is acceptable under the procedure; and

B. In the case of a heat fusion, solvent cement, or adhesive joint –

(I) Tested under any one (1) of the test methods listed under paragraph (6)(G)1. [(192.283(a))], and for polyethylene heat fusion joints (except for electrofusion joints) visually inspected in accordance with ASTM F2620 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), or a written procedure that has been demonstrated to provide an equivalent or superior level of safety, applicable to the type of joint and material being tested;

(II) Examined by ultrasonic inspection and found not to contain flaws that would cause failure; or

(III) Cut into at least three (3) longitudinal straps, each

of which is –

(a) Visually examined and found not to contain voids or discontinuities on the cut surfaces of the joint area; and

(b) Deformed by bending, torque, or impact and, if failure occurs, it must not initiate in the joint area.

3. A person must be requalified under an applicable procedure once each calendar year at intervals not exceeding fifteen (15) months, or after any production joint is found unacceptable by testing under subsection (10)(G). [(192.513)]

4. Each operator shall establish a method to determine that each person making joints in plastic pipelines in the operator's system is qualified in accordance with this subsection.

5. For transmission pipe installed after July 1, 2021, records demonstrating each person's plastic pipe joining qualifications at the time of construction in accordance with this section must be retained for a minimum of five (5) years following construction.

(I) Plastic Pipe – Inspection of Joints. (192.287) No person may carry out the inspection of joints in plastic pipes required by paragraphs (6)(B)3. and (6)(H)2. [(192.273[c] and 192.285[b])] unless that person has been qualified by appropriate training or experience in evaluating the acceptability of plastic pipe joints made under the applicable joining procedure.

#### (7) General Construction Requirements for Transmission Lines and Mains.

##### (G) Bends and Elbows. (192.313)

1. Each field bend in steel pipe, other than a wrinkle bend made in accordance with subsection (7)(H) [(192.315)], must comply with the following:

A. A bend must not impair the serviceability of the pipe;

B. Each bend must have a smooth contour and be free from buckling, cracks, or any other mechanical damage; and

C. On pipe containing a longitudinal weld, the longitudinal weld must be as near as practicable to the neutral axis of the bend unless –

(I) The bend is made with an internal bending mandrel; or

(II) The pipe is twelve inches (12") (305 millimeters) or less in outside diameter or has a diameter-to-wall thickness ratio less than seventy (70).

2. Each circumferential weld of steel pipe which is located where the stress during bending causes a permanent deformation in the pipe must be nondestructively tested either before or after the bending process.

3. Wrought-steel welding elbows and transverse segments of these elbows may not be used for changes in direction on steel pipe that is two inches (2") (51 millimeters) or more in diameter unless the arc length, as measured along the crotch, is at least one inch (1") (25 millimeters).

4. An operator may not install plastic pipe with a bend radius that is less than the minimum bend radius specified by the manufacturer for the diameter of the pipe being installed.

##### (M) Underground Clearance. (192.325)

1. Each transmission line must be installed with at least twelve inches (12") (305 millimeters) of clearance from any other underground structure not associated with the transmission line. If this clearance cannot be attained, the transmission line must be protected from damage that might result from the proximity of the other structure.

2. Each main must be installed with enough clearance from any other underground structure to allow proper maintenance and to protect against damage that might result from proximity to other structures.

3. In addition to meeting the requirements of paragraph

(7)(M)1. or 2., each plastic transmission line or main must be installed with sufficient clearance, or must be insulated, from any source of heat so as to prevent the heat from impairing the serviceability of the pipe.

4. Each pipe-type or bottle-type holder must be installed with a minimum clearance from any other holder as prescribed in paragraph (4)(S)2. [(192.175[b])]

#### (8) Customer Meters, Service Regulators, and Service Lines.

##### (B) Service Lines and Yard Lines.

1. All service line installations and residential/small commercial yard line replacements made after December 15, 1989, must be installed, owned, operated, and maintained by the operator regardless of meter location. Installations of customer-owned service lines and residential/small commercial yard lines, as defined in (1)(B) [(192.3)], will not be permitted. If the customer meter is not located within five feet (5') of the building wall, the service line to the customer's nearest building shall be installed, owned, operated, and maintained by the operator. Installation and maintenance may be performed by representatives approved by the operator and the operator must assure that the work performed by approved representatives is in compliance with the requirements of this rule.

2. Yard lines for large commercial/industrial customers may be installed or replaced, owned, and maintained, except for leak surveys, by the customer, provided the new yard line is cathodically protected, coated steel, or polyethylene pipe and the operator's installation standards are met.

##### (K) Service Lines – Connections to Cast Iron or Ductile Iron Mains. (192.369)

1. Each service line connected to a cast iron or ductile iron main must be connected by a mechanical clamp, by drilling and tapping the main, or by another method meeting the requirements of subsection (6)(B). [(192.273)]

2. If a threaded tap is being inserted, the requirements of paragraphs (4)(G)2. and 3. [(192.151[b] and [c])] must also be met.

##### (M) Service Lines – Plastic. (192.375)

1. Each plastic service line outside a building must be installed below ground level, except that –

A. It may be installed in accordance with paragraph (7)(K)7.; and

B. It may terminate aboveground level and outside the building, if –

(I) The aboveground level part of the plastic service line is protected against deterioration and external damage;

(II) The plastic service line is not used to support external loads; and

(III) The riser portion of the service line meets the design requirements of (4)(AA).

2. Plastic service lines shall not be installed inside a building.

3. Plastic pipe that is installed in a below grade vault or pit must be completely encased in gastight metal pipe and fittings that are adequately protected from corrosion.

4. Plastic pipe must be installed so as to minimize shear or tensile stresses.

5. Thermoplastic pipe that is not encased must have a minimum wall thickness of 0.090 inches (0.090"), except that pipe with an outside diameter of 0.875 inches (0.875") or less may have a minimum wall thickness of 0.062 inches (0.062").

6. Plastic pipe that is being encased must be inserted into the casing pipe in a manner that will protect the plastic. The leading end of the plastic must be closed before insertion.

7. For requirements pertaining to installation of plastic

service lines by trenchless excavation, see subsection (8)(R). [(192.376)]

(Q) Manual Service Line Shut-Off Valve Installation (192.385)

1. Definitions for subsection (8)(Q). Manual service line shut-off valve means a curb valve or other manually operated valve located near the service line that is safely accessible to operator personnel or other personnel authorized by the operator to manually shut off gas flow to the service line, if needed.

2. Installation requirement. The operator must install either a manual service line shut-off valve or, if possible, based on sound engineering analysis and availability, an EFV for any new or replaced service line with installed meter capacity exceeding 1,000 SCFH, where replaced service line is defined in paragraph (8)(P)1.

3. Accessibility and maintenance. Manual service line shut-off valves for any new or replaced service line must be installed in such a way as to allow accessibility during emergencies. Manual service shut-off valves installed under this subsection are subject to regular scheduled maintenance, as documented by the operator and consistent with the valve manufacturer's specification.

(9) Requirements for Corrosion Control.

(B) How Does this Section Apply to Converted Pipelines and Regulated Onshore Gathering Lines? (192.452)

1. Converted pipelines. Notwithstanding the date the pipeline was installed or any earlier deadlines for compliance, each pipeline which qualifies for use under this rule in accordance with subsection (1)(H) must have a cathodic protection system designed to protect the pipeline in its entirety in accordance with subsection (9)(H) within one (1) year after the pipeline is readied for service.

2. Type A and B onshore gathering lines. For any Type A and B onshore gathering line under [49 CFR 192.9] paragraph (1)(E)2. existing on April 14, 2006, that was not previously subject to this [part] rule, and for any gathering line that becomes a regulated onshore gathering line under [subsection] paragraph (1)(E)2. [of this rule (192.9)] after April 14, 2006, because of a change in class location or increase in dwelling density –

A. The requirements of this section specifically applicable to pipelines installed before August 1, 1971, apply to the gathering line regardless of the date the pipeline was actually installed; and

B. The requirements of this section specifically applicable to pipelines installed after July 31, 1971, apply only if the pipeline substantially meets those requirements.

3. Type C onshore regulated gathering lines. For any Type C onshore regulated gathering pipeline under [subsection] paragraph (1)(E)2. [of this rule (192.9)] existing on May 16, 2022, that was not previously subject to this rule, and for any Type C onshore gas gathering pipeline that becomes subject to section (9) after May 16, 2022, because of an increase in MAOP, change in class location, or presence of a building intended for human occupancy or other impacted site –

A. The requirements of section (9) specifically applicable to pipelines installed before August 1, 1971, apply to the gathering line regardless of the date the pipeline was actually installed; and

B. The requirements of section (9) specifically applicable to pipelines installed after July 31, 1971, apply only if the pipeline substantially meets those requirements.

4. Regulated onshore gathering lines generally. Any gathering line that is subject to section (9) per [subsection] paragraph (1)(E)2. [of this rule] or 49 CFR 192.9 at the time

of construction must meet the requirements of section (9) applicable to pipelines installed after July 31, 1971.

(D) External Corrosion Control – Buried or Submerged Pipelines Installed After July 31, 1971. (192.455)

1. Except as provided in paragraphs (9)(D)2., 5., and 6., each buried or submerged pipeline installed after July 31, 1971, must be protected against external corrosion, including the following:

A. It must have an external protective coating meeting the requirements of subsection (9)(G) [(192.461)]; and

B. It must have a cathodic protection system designed to protect the pipeline in accordance with this section, installed and placed in operation within one (1) year after completion of construction.

2. An operator need not comply with paragraph (9)(D)1., if the operator can demonstrate by tests, investigation, or experience that –

A. For a copper pipeline, a corrosive environment does not exist; or

B. For a temporary pipeline with an operating period of service not to exceed five (5) years beyond installation, corrosion during the five- (5-) year period of service of the pipeline will not be detrimental to public safety.

3. Notwithstanding the provisions of paragraph (9)(D)2., if a pipeline is externally coated, it must be cathodically protected in accordance with subparagraph (9)(D)1.B.

4. Aluminum may not be installed in a buried or submerged pipeline if that aluminum is exposed to an environment with a natural pH in excess of eight (8), unless tests or experience indicate its suitability in the particular environment involved.

5. This subsection does not apply to electrically isolated, metal alloy fittings in plastic pipelines, if –

A. For the size fitting to be used, an operator can show by test, investigation, or experience in the area of application that adequate corrosion control is provided by the alloy composition; and

B. The fitting is designed to prevent leaking caused by localized corrosion pitting.

6. Electrically isolated metal alloy fittings installed after April 22, 2019, that do not meet the requirements of paragraph (9)(D)5. must be cathodically protected, and must be maintained in accordance with the operator's integrity management plan.

(F) External Corrosion Control – Inspection of Buried Pipeline When Exposed. (192.459) Whenever an operator has knowledge that any portion of a buried metallic pipeline is exposed, an inspection of the exposed portion must be conducted. If the pipe is coated, the condition of the coating must be determined. If the pipe is bare or if the coating is deteriorated, the surface of the pipe must be examined for evidence of external corrosion. If external corrosion requiring remedial action under subsections (9)(R) through (9)(U) [(192.483 through 192.489)] is found, the operator shall investigate circumferentially and longitudinally beyond the exposed portion (by visual examination, indirect method, or both) to determine whether additional corrosion requiring remedial action exists in the vicinity of the exposed portion.

(I) External Corrosion Control – Monitoring and Remediation. (192.465)

1. Each pipeline that is under cathodic protection must be tested at least once each calendar year, but with intervals not exceeding fifteen (15) months, to determine whether the cathodic protection meets the requirements of subsection (9)(H) of this rule. [(192.463)] However, if tests at those intervals are impractical for separately protected short sections of mains or transmission lines, not in excess of one hundred feet

(100') (thirty meters (30 m)), or separately protected service lines, these pipelines may be surveyed on a sampling basis. At least twenty percent (20%) of these protected structures, distributed over the entire system, must be surveyed each calendar year, with a different twenty percent (20%) checked each subsequent year, so that the entire system is tested in each five- (5-) year period. Each short section of metallic pipe less than one hundred feet (100') (thirty meters (30 m)) in length installed and cathodically protected in accordance with paragraph (9)(R)2. of this rule [(192.483(b))], each segment of pipe cathodically protected in accordance with paragraph (9)(R)3. of this rule [(192.483(c))] and each electrically isolated metallic fitting not meeting the requirements of paragraph (9)(D)5. of this rule [(192.455(f))] must be monitored at a minimum rate of ten percent (10%) each calendar year, with a different ten percent (10%) checked each subsequent year, so that the entire system is tested every ten (10) years.

2. Cathodic protection rectifiers and impressed current power sources must be periodically inspected as follows:

A. Each cathodic protection rectifier or other impressed current power source must be inspected six (6) times each calendar year, but with intervals not exceeding two and one-half (2 1/2) months between inspections, to ensure adequate amperage and voltage levels needed to provide cathodic protection are maintained. This may be done either through remote measurement or through an onsite inspection of the rectifier; and

B. After January 1, 2022, each remotely inspected rectifier must be physically inspected for continued safe and reliable operation at least once each calendar year, but with intervals not exceeding fifteen (15) months.

3. Each reverse current switch, each diode, and each interference bond whose failure would jeopardize structure protection must be electrically checked for proper performance six (6) times each calendar year, but with intervals not exceeding two and one-half (2 1/2) months. Each other interference bond must be checked at least once each calendar year, but with intervals not exceeding fifteen (15) months.

4. Each operator must promptly correct any deficiencies indicated by the inspection and testing required by paragraphs (9)(I)1.-3. Corrective measures must be completed within six (6) months unless otherwise approved by designated commission personnel. For gas transmission pipelines, no extension for corrective measures may exceed the earliest of the following:

A. Prior to the next inspection or test interval required by this subsection;

B. Within one (1) year, not to exceed fifteen (15) months, of the inspection or test that identified the deficiency; or

C. As soon as practicable, not to exceed six (6) months, after obtaining any necessary permits. Permits necessary to complete corrective actions must be applied for within six (6) months of completing the inspection or testing that identified the deficiency.

5. After the initial evaluation required by paragraphs (9)(D)2. and (9)(E)2., each operator must, not less than every three (3) years at intervals not exceeding thirty-nine (39) months, reevaluate its unprotected pipelines and cathodically protect them in accordance with section (9) in areas in which active corrosion is found. Unprotected steel service lines are subject to replacement pursuant to subsection (15)(C). The operator must determine the areas of active corrosion by electrical survey. However, on distribution lines and where an electrical survey is impractical on transmission lines, areas of active corrosion may be determined by other means that include review and analysis of leak repair and inspection records,

corrosion monitoring records, exposed pipe inspection records, the pipeline environment, and by instrument leak detection surveys (see subsections (13)(D) and (13)(M)). When the operator conducts electrical surveys, the operator must demonstrate that the surveys effectively identify areas of active corrosion.

6. An operator must determine the extent of the area with inadequate cathodic protection for gas transmission pipelines where any annual test station reading (pipe-to-soil potential measurement) indicates cathodic protection levels below the required levels in Appendix D.

A. Gas transmission pipeline operators must investigate and mitigate any non-systemic or location-specific causes.

B. To address systemic causes, an operator must conduct close interval surveys in both directions from the test station with a low cathodic protection reading at a maximum interval of approximately five feet (5') or less. An operator must conduct close interval surveys unless it is impractical based upon geographical, technical, or safety reasons. An operator must complete close interval surveys required by this subsection with the protective current interrupted unless it is impractical to do so for technical or safety reasons. An operator must remediate areas with insufficient cathodic protection levels, or areas where protective current is found to be leaving the pipeline, in accordance with paragraph (9)(I)4. An operator must confirm the restoration of adequate cathodic protection following the implementation of remedial actions undertaken to mitigate systemic causes of external corrosion.

(N) Internal Corrosion Control – General and Monitoring. (192.475 and 192.477)

1. Corrosive gas may not be transported by pipeline, unless the corrosive effect of the gas on the pipeline has been investigated and steps have been taken to minimize internal corrosion.

2. Whenever any pipe is removed from a pipeline for any reason, the internal surface must be inspected for evidence of corrosion. If internal corrosion is found –

A. The adjacent pipe must be investigated to determine the extent of internal corrosion;

B. Replacement must be made to the extent required by the applicable paragraphs of subsections (9)(S), (T), or (U) [(192.485, 192.487, or 192.489)]; and

C. Steps must be taken to minimize the internal corrosion.

3. Gas containing more than 0.25 grain of hydrogen sulfide per one hundred (100) cubic feet (5.8 milligrams/m<sup>3</sup>) at standard conditions (four (4) parts per million) may not be stored in pipe-type or bottle-type holders.

4. Monitoring. (192.477) If corrosive gas is being transported, coupons or other suitable means must be used to determine the effectiveness of the steps taken to minimize internal corrosion. Each coupon or other means of monitoring internal corrosion must be checked two (2) times each calendar year, but with intervals not exceeding seven and one-half (7 1/2) months.

(R) Remedial Measures – General. (192.483)

1. Each segment of metallic pipe that replaces pipe removed from a buried or submerged pipeline because of external corrosion must have a properly prepared surface and must be provided with an external protective coating that meets the requirements of subsection (9)(G). [(192.461)]

2. Each segment of metallic pipe that replaces pipe removed from a buried or submerged pipeline because of external corrosion must be cathodically protected and monitored in accordance with this section.

3. Except for cast iron or ductile iron pipe, each segment

of buried or submerged pipe that is required to be repaired because of external corrosion must be cathodically protected and monitored in accordance with this section.

(Y) *Internal Corrosion Control—Transmission Monitoring and Mitigation.* (192.478)

1. *Each operator of a gas transmission pipeline with corrosive constituents in the gas being transported must develop and implement a monitoring and mitigation program to mitigate the corrosive effects as necessary. Potentially corrosive constituents include, but are not limited to, carbon dioxide, hydrogen sulfide, sulfur, microbes, and liquid water, either by itself or in combination. An operator must evaluate the partial pressure of each corrosive constituent, where applicable, by itself or in combination, to evaluate the effect of the corrosive constituents on the internal corrosion of the pipe and implement mitigation measures as necessary.*

2. *The monitoring and mitigation program described in subsection (9)(Y) must include—*

A. *The use of gas-quality monitoring methods at points where gas with potentially corrosive contaminants enters the pipeline to determine the gas stream constituents;*

B. *Technology to mitigate the potentially corrosive gas stream constituents. Such technologies may include product sampling, inhibitor injections, in-line cleaning pigging, separators, or other technology that mitigates potentially corrosive effects; and*

C. *An evaluation at least once each calendar year, at intervals not to exceed fifteen (15) months, to ensure that potentially corrosive gas stream constituents are effectively monitored and mitigated.*

3. *An operator must review its monitoring and mitigation program at least once each calendar year, at intervals not to exceed fifteen (15) months, and based on the results of its monitoring and mitigation program, implement adjustments, as necessary.]* (Reserved).

(10) Test Requirements.

(B) General Requirements. (192.503)

1. No person may operate a new segment of pipeline, or return to service a segment of pipeline that has been relocated or replaced, until—

A. It has been tested in accordance with this section and subsection (12)(M) [(192.619)] to substantiate the maximum allowable operating pressure; and

B. Each potentially hazardous leak has been located and eliminated.

2. The test medium must be liquid, air, natural gas, or inert gas that is—

A. Compatible with the material of which the pipeline is constructed;

B. Relatively free of sedimentary materials; and

C. Except for natural gas, nonflammable.

3. Except as provided in paragraph (10)(C)1. [(192.505[a])], if air, natural gas, or inert gas is used as the test medium, the following maximum hoop stress limitations apply:

| Class Location | Maximum Hoop Stress Allowed as Percentage of SMYS |                  |
|----------------|---|------------------|
|                | Natural Gas                                       | Air or Inert Gas |
| 1              | 80  | 80               |
| 2              | 30  | 75               |
| 3              | 30  | 50               |
| 4              | 30  | 40               |

4. Each connection used to tie-in a test segment of

pipeline is excepted from the specific test requirements of this section, but it must be leak tested at not less than its operating pressure.

5. If a component other than pipe is the only item being replaced or added to a pipeline, a strength test after installation is not required, if the manufacturer of the component certifies that—

A. The component was tested to at least the pressure required for the pipeline to which it is being added;

B. The component was manufactured under a quality control system that ensures that each item manufactured is at least equal in strength to a prototype and that the prototype was tested to at least the pressure required for the pipeline to which it is being added; or

C. The component carries a pressure rating established through applicable ASME/ANSI specifications, Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS) specifications, or by unit strength calculations as described in subsection (4)(B).

(I) Records. (192.517)

1. For pipelines other than service lines, each operator shall make and retain for the useful life of the pipeline, a record of each test performed under subsections (10)(C)-(E), (G), and (K). [(192.505, 192.506, 192.507, 192.509, and 192.513)] Where applicable to the test performed, the record must contain at least the following information, except as noted in subparagraph (10)(I)1.B.:

A. The operator's name, the name of the operator's employee responsible for making the test, and the name of any test company used;

B. Test medium used, except for tests performed pursuant to subsections (10)(E) and (G);

C. Test pressure;

D. Test duration;

E. Pressure recording charts or other record of pressure readings;

F. Elevation variations, whenever significant for the particular test;

G. Leaks and failures noted and their disposition;

H. Test date; and

I. Description of facilities being tested.

2. For service lines, each operator shall make and retain for the useful life of the pipeline, a record of each test performed under subsections (10)(F) and (G) [(192.511 and 192.513)]. Where applicable to the test performed, the record must contain the test pressure, test duration, leaks, and failures noted and their disposition and the date.

3. **Each operator shall make and retain for the useful life of the pipeline a record of each test performed under paragraph (10)(B)4.**

(K) Transmission Lines: Spike Hydrostatic Pressure Test. (192.506)

1. Spike test requirements. Whenever a segment of steel transmission pipeline that is operated at a hoop stress level of thirty percent (30%) or more of SMYS is spike tested under this rule, the spike hydrostatic pressure test must be conducted in accordance with this subsection.

A. The test must use water as the test medium.

B. The baseline test pressure must be as specified in subparagraph (12)(M)1.B. [(192.619(a)(2))].

C. The test must be conducted by maintaining a pressure at or above the baseline test pressure for at least eight (8) hours as specified in subsection (10)(C) [(192.505)].

D. After the test pressure stabilizes at the baseline pressure and within the first two (2) hours of the eight-(8)-hour test interval, the hydrostatic pressure must be raised

(spiked) to a minimum of the lesser of 1.5 times MAOP or one-hundred percent (100%) SMYS. This spike hydrostatic pressure test must be held for at least fifteen (15) minutes after the spike test pressure stabilizes.

2. "Other technology" or other technical evaluation process. Operators may use "other technology" or another process supported by a documented engineering analysis for establishing a spike hydrostatic pressure test or equivalent. Operators must notify PHMSA ninety (90) days in advance of the assessment or reassessment requirements of this chapter. The notification must be made in accordance with subsection (1)(M) [(192.18)] and must include the following information:

A. Descriptions of the technology or technologies to be used for all tests, examinations, and assessments;

B. Procedures and processes to conduct tests, examinations, assessments, perform evaluations, analyze defects, and remediate defects discovered;

C. Data requirements, including original design, maintenance and operating history, anomaly or flaw characterization;

D. Assessment techniques and acceptance criteria;

E. Remediation methods for assessment findings;

F. Spike hydrostatic pressure test monitoring and acceptance procedures, if used;

G. Procedures for remaining crack growth analysis and pipeline segment life analysis for the time interval for additional assessments, as required; and

H. Evidence of a review of all procedures and assessments by a qualified technical subject matter expert.

#### (11) Uprating.

##### (B) General Requirements. (192.553)

1. Pressure increases. Whenever the requirements of this section require that an increase in operating pressure be made in increments, the pressure must be increased gradually, at a rate that can be controlled and in accordance with the following:

A. At the end of each incremental increase, the pressure must be held constant while the entire segment of the pipeline that is affected is checked for leaks. When a combustible gas is being used for uprating, all buried piping must be checked with a leak detection instrument after each incremental increase; and

B. Each leak detected must be repaired before a further pressure increase is made, except that a leak determined not to be potentially hazardous need not be repaired, if it is monitored during the pressure increase and it does not become potentially hazardous.

2. Records. Each operator who uprates a segment of pipeline shall retain for the life of the segment a record of each investigation required by this section, of all work performed, and of each pressure test conducted, in connection with the uprating.

3. Written plan. Each operator who uprates a segment of pipeline shall establish a written procedure that will ensure compliance with each applicable requirement of this section.

4. Limitation on increase in maximum allowable operating pressure. Except as provided in (11)(C)3., a new maximum allowable operating pressure established under this section may not exceed the maximum that would be allowed under subsections (12)(M) and (12)(N) for a new segment of pipeline constructed of the same materials in the same location. However, when uprating a steel pipeline, if any variable necessary to determine the design pressure under the design formula in subsection (3)(C) is unknown, the MAOP may be increased as provided in subparagraph (12)(M)1.A.

5. Establishment of a new maximum allowable operating pressure. Subsections (12)(M) and (N) [(192.619 and 192.621)] must be reviewed when establishing a new MAOP. The pressure to which the pipeline is raised during the uprating procedure is the test pressure that must be divided by the appropriate factors in subparagraph (12)(M)1.B. [(192.619[a][2])] except that pressure tests conducted on steel and plastic pipelines after July 1, 1965, are applicable.

(C) Uprating to a Pressure That Will Produce a Hoop Stress of Thirty Percent (30%) or More of SMYS in Steel Pipelines. (192.555)

1. Unless the requirements of this subsection have been met, no person may subject any segment of a steel pipeline to an operating pressure that will produce a hoop stress of thirty percent (30%) or more of SMYS and that is above the established maximum allowable operating pressure.

2. Before increasing operating pressure above the previously established maximum allowable operating pressure the operator shall –

A. Review the design, operating, and maintenance history and previous testing of the segment of pipeline and determine whether the proposed increase is safe and consistent with the requirements of this rule; and

B. Make any repairs, replacements, or alterations in the segment of pipeline that are necessary for safe operation at the increased pressure.

3. After complying with paragraph (11)(C)2., an operator may increase the maximum allowable operating pressure of a segment of pipeline constructed before September 12, 1970, to the highest pressure that is permitted under subsection (12)(M) [(192.619)], using as test pressure the highest pressure to which the segment of pipeline was previously subjected (either in a strength test or in actual operation).

4. After complying with paragraph (11)(C)2., an operator that does not qualify under paragraph (11)(C)3. may increase the previously established maximum allowable operating pressure if at least one (I) of the following requirements is met:

A. The segment of pipeline is successfully tested in accordance with the requirements of this rule for a new line of the same material in the same location; or

B. An increased maximum allowable operating pressure may be established for a segment of pipeline in a Class 1 location if the line has not previously been tested, and if –

(I) It is impractical to test it in accordance with the requirements of this rule;

(II) The new maximum operating pressure does not exceed eighty percent (80%) of that allowed for a new line of the same design in the same location; and

(III) The operator determines that the new maximum allowable operating pressure is consistent with the condition of the segment of pipeline and the design requirements of this rule.

5. Where a segment of pipeline is uprated in accordance with paragraph (11)(C)3. or subparagraph (11)(C)4.B., the increase in pressure must be made in increments that are equal to –

A. Ten percent (10%) of the pressure before the uprating; or

B. Twenty-five percent (25%) of the total pressure increase, whichever produces the fewer number of increments.

#### (12) Operations.

##### (B) General Provisions. (192.603)

1. No person may operate a segment of pipeline unless it is operated in accordance with this section.

2. Each operator shall keep records necessary to

administer the procedures established under subsection (12)(C). [(192.605)]

3. Each operator is responsible for ensuring that all work completed on its pipelines by its consultants and contractors complies with this rule.

4. Designated commission personnel may require the operator to amend its plans and procedures as necessary to provide a reasonable level of safety. In the event of a dispute between designated commission personnel and the operator with respect to the appropriateness of a required amendment, the operator may file with the commission a request for a hearing before the commission, or the designated commission personnel may request that a complaint be filed against the operator by the general counsel of the commission.

(C) Procedural Manual for Operations, Maintenance, and Emergencies. (192.605)

1. General. Each operator shall prepare and follow for each pipeline, a manual of written procedures for conducting operations and maintenance activities and for emergency response. For transmission lines that are not exempt under subparagraph (12)(C)3.E., the manual must also include procedures for handling abnormal operations. This manual must be reviewed and updated by the operator at intervals not exceeding fifteen (15) months, but at least once each calendar year. This manual must be prepared before initial operations of a pipeline system commence and appropriate parts of the manual must be kept at locations where operations and maintenance activities are conducted.

2. Maintenance and normal operations. The manual required by paragraph (12)(C)1. must include procedures for the following, if applicable, to provide safety during maintenance and normal operations:

A. Operating, maintaining, and repairing the pipeline in accordance with each of the requirements of this section and sections (13) and (14);

B. Controlling corrosion in accordance with the operations and maintenance requirements of section (9);

C. Making construction records, maps, and operating history available to appropriate operating personnel;

D. Gathering of data needed for reporting incidents under 20 CSR 4240-40.020 in a timely and effective manner;

E. Starting up and shutting down any part of a pipeline in a manner designed to assure operation within the MAOP limits prescribed by this rule, plus the build-up allowed for operation of pressure limiting and control devices;

F. Maintaining compressor stations, including provisions for isolating units or sections of pipe and for purging before returning to service;

G. Starting, operating, and shutting down gas compressor units;

H. Periodically reviewing the work done by operator personnel to determine the effectiveness and adequacy of the procedures used in normal operation and maintenance and modifying the procedures when deficiencies are found;

I. Inspecting periodically to ensure that operating pressures are appropriate for the class location;

J. Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapor or gas, and making available, when needed at the excavation, emergency rescue equipment including a breathing apparatus and a rescue harness and line;

K. Systematically and routinely testing and inspecting pipe-type or bottle-type holders including [J]—

(I) Provision for detecting external corrosion before the strength of the container has been impaired;

(II) Periodic sampling and testing of gas in storage to

determine the dew point of vapors contained in the stored gas that, if condensed, might cause internal corrosion or interfere with the safe operation of the storage plant; and

(III) Periodic inspection and testing of pressure limiting equipment to determine that it is in a safe operating condition and has adequate capacity;

L. Continuing observations during all routine activities including [J] but not limited to [J] meter reading and cathodic protection work, for the purpose of detecting potential leaks by observing vegetation and odors. Potential leak indications must be recorded and responded to in accordance with section (14);

M. Testing and inspecting of customer-owned gas piping and equipment in accordance with subsection (12)(S);

N. Responding promptly to a report of a gas odor inside or near a building, unless the operator's emergency procedures under subparagraph (12)(J)1.C. specifically apply to these reports; and

O. Implementing the applicable control room management procedures required by subsection (12)(T).

3. Abnormal operation. For transmission lines the manual required by paragraph (12)(C)1. must include procedures for the following to provide safety when operating design limits have been exceeded:

A. Responding to, investigating, and correcting the cause of—

(I) Unintended closure of valves or shutdowns;

(II) Increase or decrease in pressure or flow rate outside normal operating limits;

(III) Loss of communications;

(IV) Operation of any safety device; and

(V) Any other foreseeable malfunction of a component, deviation from normal operation, or personnel error which could cause a hazard to persons or property;

B. Checking variations from normal operation after abnormal operation has ended at sufficient critical locations in the system to determine continued integrity and safe operation;

C. Notifying responsible operator personnel when notice of an abnormal operation is received;

D. Periodically reviewing the response of operator personnel to determine the effectiveness of the procedures controlling abnormal operation and taking corrective action where deficiencies are found; and

E. The requirements of this paragraph (12)(C)3. do not apply to natural gas distribution operations that are operating transmission lines in connection with their distribution system.

4. Safety-related conditions. The manual required by paragraph (12)(C)1. must include instructions enabling personnel who perform operation and maintenance activities to recognize conditions that potentially may be safety-related conditions that are subject to the commission's reporting requirements.

5. Surveillance, emergency response, and accident investigation. The procedures required by paragraph (12)(H)1. and subsections (12)(J) and (L) [(192.613[a], 192.615 and 192.617)] must be included in the manual required by paragraph (12)(C)1.

(D) Qualification of Pipeline Personnel.

1. Scope. (192.801)

A. This subsection prescribes the minimum requirements for operator qualification of individuals performing covered tasks on a pipeline facility. This subsection applies to all individuals who perform covered tasks, regardless of whether they are employed by the operator, a contractor, a

subcontractor, or any other entity performing covered tasks on behalf of the operator.

B. For the purpose of this subsection, a covered task is an activity, identified by the operator, that –

- (I) Is performed on a pipeline facility;
- (II) Is an operations, maintenance, or emergency-response task;
- (III) Is performed as a requirement of this rule; and
- (IV) Affects the operation or integrity of the pipeline.

2. Definitions. (192.803)

A. Abnormal operating condition means a condition identified by the operator that may indicate a malfunction of a component or deviation from normal operations that may[.] –

- (I) Indicate a condition exceeding design limits;
- (II) Result in a hazard(s) to persons, property, or the environment; or
- (III) Require an emergency response.

B. Evaluation (or evaluate) means a process consisting of training and examination, established and documented by the operator, to determine an individual's ability to perform a covered task and to demonstrate that an individual possesses the knowledge and skills under paragraph (12)(D)4. After initial evaluation for paragraph (12)(D)4., subsequent evaluations for paragraph (12)(D)4. can consist of examination only. The examination portion of this process may be conducted by one (I) or more of the following:

- (I) Written examination;
- (II) Oral examination;

(III) Hands-on examination, which could involve observation supplemented by appropriate queries. Observations can be made during[.] –

- (a) Performance on the job;
- (b) On the job training; or
- (c) Simulations.

C. Qualified means that an individual has been evaluated and can[.] –

- (I) Perform assigned covered tasks; and
- (II) Recognize and react to abnormal operating conditions.

3. Qualification program. (192.805) Each operator shall have and follow a written qualification program. The program shall include provisions to[.] –

A. Identify covered tasks;

B. Provide training, as appropriate, to ensure that individuals performing covered tasks have the necessary knowledge and skills to perform the tasks in a manner that ensures the safe operation of pipeline facilities;

C. Ensure through evaluation that individuals performing covered tasks are qualified and have the necessary knowledge and skills to perform the tasks in a manner that ensures the safe operation of pipeline facilities;

D. Allow individuals that are not qualified pursuant to this subsection to perform a covered task if directed and observed by an individual that is qualified;

E. Evaluate an individual if the operator has reason to believe that the individual's performance of a covered task contributed to an incident meeting the Missouri reporting requirements in 20 CSR 4240-40.020(4)(A);

F. Evaluate an individual if the operator has reason to believe that the individual is no longer qualified to perform a covered task;

G. Communicate changes, including changes to rules and procedures, that affect covered tasks to individuals performing those covered tasks and their supervisors, and incorporate those changes in subsequent evaluations;

H. Identify the interval for each covered task at which

evaluation of the individual's qualifications is needed, with a maximum interval of thirty-nine (39) months;

I. Evaluate an individual's possession of the knowledge and skills under paragraph (12)(D)4. at intervals not to exceed thirty-nine (39) months;

J. Ensure that covered tasks are –

- (I) Performed by qualified individuals; or
- (II) Directed and observed by qualified individuals;

and

K. Submit each program change to designated commission personnel as required by subsection (1)(J).

4. Personnel to whom this subsection applies must possess the knowledge and skills necessary to –

A. Follow the requirements of this rule that relate to the covered tasks they perform;

B. Carry out the procedures in the procedural manual for operations, maintenance, and emergencies established under subsection (12)(C) [(192.605)] that relate to the covered tasks they perform;

C. Utilize instruments and equipment that relate to the covered task they perform in accordance with manufacturer's instructions;

D. Know the characteristics and hazards of the gas transported, including flammability range, odorant characteristics, and corrosive properties;

E. Recognize potential ignition sources;

F. Recognize conditions that are likely to cause emergencies, including equipment or facility malfunctions or failure and gas leaks, predict potential consequences of these conditions, and take appropriate corrective action;

G. Take steps necessary to control any accidental release of gas and to minimize the potential for fire or explosion; and

H. Know the proper use of firefighting procedures and equipment, fire suits, and breathing apparatus by utilizing, where feasible, a simulated pipeline emergency condition.

5. Each operator shall continue to meet the training and annual review requirements regarding the operator's emergency procedures in subparagraph (12)(J)2.B., in addition to the qualification program required in paragraph (12)(D)3.

6. Each operator shall provide instruction to the supervisors or designated persons who will determine when an evaluation is necessary under subparagraph (12)(D)3.F.

7. Each operator shall select appropriately knowledgeable individuals to provide training and to perform evaluations. Where hands-on examinations and observations are used, the evaluator should possess the required knowledge to ascertain an individual's ability to perform covered tasks and react to abnormal operating conditions that might occur while performing those tasks.

8. Recordkeeping. (192.807) Each operator shall maintain records that demonstrate compliance with this subsection.

A. Qualification records shall include[.] –

- (I) Identification of the qualified individual(s);
- (II) Identification of the covered tasks the individual is qualified to perform;
- (III) Date(s) of current qualification; and
- (IV) Qualification method(s).

B. Records supporting an individual's current qualification shall be maintained while the individual is performing the covered task. Records of prior qualification and records of individuals no longer performing covered tasks shall be retained for a period of five (5) years.

9. General. (192.809)

A. Operators must have a written qualification program by April 27, 2001. The program must be available for review by designated commission personnel.

B. Operators must complete the qualification of individuals performing covered tasks by October 28, 2002.

C. After December 16, 2004, observation of on-the-job performance may not be used as the sole method of evaluation.

(E) Verification of Pipeline Material Properties and Attributes: Steel Transmission Pipelines. (192.607)

1. Applicability. Wherever required by this rule, operators of steel transmission pipelines must document and verify material properties and attributes in accordance with this subsection.

2. Documentation of material properties and attributes. Records established under this subsection documenting physical pipeline characteristics and attributes, including diameter, wall thickness, seam type, and grade (e.g., yield strength, ultimate tensile strength, or pressure rating for valves and flanges, etc.), must be maintained for the life of the pipeline and be traceable, verifiable, and complete. Charpy v-notch toughness values established under this subsection needed to meet the requirements of the ECA method at subparagraph (12)(U)3.C. [(192.624(c)(3))] or the fracture mechanics requirements at subsection (13)(EE) [(192.712)] must be maintained for the life of the pipeline.

3. Verification of material properties and attributes. If an operator does not have traceable, verifiable, and complete records required by paragraph (12)(E)2., the operator must develop and implement procedures for conducting nondestructive or destructive tests, examinations, and assessments in order to verify the material properties of aboveground line pipe and components, and of buried line pipe and components when excavations occur at the following opportunities: Anomaly direct examinations, in situ evaluations, repairs, remediations, maintenance, and excavations that are associated with replacements or relocations of pipeline segments that are removed from service. The procedures must also provide for the following:

A. For nondestructive tests, at each test location, material properties for minimum yield strength and ultimate tensile strength must be determined at a minimum of five (5) places in at least two (2) circumferential quadrants of the pipe for a minimum total of ten (10) test readings at each pipe cylinder location;

B. For destructive tests, at each test location, a set of material properties tests for minimum yield strength and ultimate tensile strength must be conducted on each test pipe cylinder removed from each location, in accordance with API Specification 5L;

C. Tests, examinations, and assessments must be appropriate for verifying the necessary material properties and attributes;

D. If toughness properties are not documented, the procedures must include accepted industry methods for verifying pipe material toughness; and

E. Verification of material properties and attributes for non-line pipe components must comply with paragraph (12)(E)6.

4. Special requirements for nondestructive methods. Procedures developed in accordance with paragraph (12)(E)3. for verification of material properties and attributes using nondestructive methods must –

A. Use methods, tools, procedures, and techniques that have been validated by a subject matter expert based on comparison with destructive test results on material of comparable grade and vintage;

B. Conservatively account for measurement inaccuracy and uncertainty using reliable engineering tests and analyses;

and

C. Use test equipment that has been properly calibrated for comparable test materials prior to usage.

5. Sampling multiple segments of pipe. To verify material properties and attributes for a population of multiple, comparable segments of pipe without traceable, verifiable, and complete records, an operator may use a sampling program in accordance with the following requirements:

A. The operator must define separate populations of similar segments of pipe for each combination of the following material properties and attributes: Nominal wall thicknesses, grade, manufacturing process, pipe manufacturing dates, and construction dates. If the dates between the manufacture or construction of the pipeline segments exceeds two (2) years, those segments cannot be considered as the same vintage for the purpose of defining a population under this section. The total population mileage is the cumulative mileage of pipeline segments in the population. The pipeline segments need not be continuous;

B. For each population defined according to subparagraph (12)(E)5.A., the operator must determine material properties at all excavations that expose the pipe associated with anomaly direct examinations, in situ evaluations, repairs, remediations, or maintenance, except for pipeline segments exposed during excavation activities pursuant to subsection (12)(I) [(192.614)], until completion of the lesser of the following:

(I) One (1) excavation per mile rounded up to the nearest whole number; or

(II) One-/hundred-/fifty (150) excavations if the population is more than one-/hundred-/fifty (150) miles;

C. Prior tests conducted for a single excavation according to the requirements of paragraph (12)(E)3. may be counted as one (1) sample under the sampling requirements of this paragraph (12)(E)5.;

D. If the test results identify line pipe with properties that are not consistent with available information or existing expectations or assumed properties used for operations and maintenance in the past, the operator must establish an expanded sampling program. The expanded sampling program must use valid statistical bases designed to achieve at least a ninety-five percent (95%) confidence level that material properties used in the operation and maintenance of the pipeline are valid. The approach must address how the sampling plan will be expanded to address findings that reveal material properties that are not consistent with all available information or existing expectations or assumed material properties used for pipeline operations and maintenance in the past. Operators must notify PHMSA in advance of using an expanded sampling approach in accordance with subsection (1)(M) [(192.18)]; and

E. An operator may use an alternative statistical sampling approach that differs from the requirements specified in subparagraph (12)(E)5.B. The alternative sampling program must use valid statistical bases designed to achieve at least a ninety-five percent (95%) confidence level that material properties used in the operation and maintenance of the pipeline are valid. The approach must address how the sampling plan will be expanded to address findings that reveal material properties that are not consistent with all available information or existing expectations or assumed material properties used for pipeline operations and maintenance in the past. Operators must notify PHMSA in advance of using an alternative sampling approach in accordance with subsection (1)(M) [(192.18)].

6. Components. For mainline pipeline components other

than line pipe, an operator must develop and implement procedures in accordance with paragraph (12)(E)3. for establishing and documenting the ANSI rating or pressure rating (in accordance with ASME/ANSI B16.5 (incorporated by reference in 49 CFR 192.7 and adopted in (1)(D))).

A. Operators are not required to test for the chemical and mechanical properties of components in compressor stations, meter stations, regulator stations, separators, river crossing headers, mainline valve assemblies, valve operator piping, or cross-connections with isolation valves from the mainline pipeline.

B. Verification of material properties is required for non-line pipe components, including valves, flanges, fittings, fabricated assemblies, and other pressure retaining components and appurtenances that are –

(I) Larger than two (2) inches in nominal outside diameter;

(II) Material grades of forty-two thousand (42,000) psi (Grade X-42) or greater; or

(III) Appurtenances of any size that are directly installed on the pipeline and cannot be isolated from mainline pipeline pressures.

C. Procedures for establishing material properties of non-line pipe components must be based on the documented manufacturing specification for the components. If specifications are not known, usage of manufacturer's stamped, marked, or tagged material pressure ratings and material type may be used to establish pressure rating. Operators must document the method used to determine the pressure rating and the findings of that determination.

7. Upgrading. The material properties determined from the destructive or nondestructive tests required by this subsection (12)(E) cannot be used to raise the grade or specification of the material, unless the original grade or specification is unknown and MAOP is based on an assumed yield strength of twenty-four thousand (24,000) psi in accordance with subparagraph (3)(D)2.B. [(192.107(b)(2))].

(G) Change in Class Location – Confirmation or Revision of Maximum Allowable Operating Pressure. (192.611)

1. If the hoop stress corresponding to the established maximum allowable operating pressure of a segment of pipeline is not commensurate with the present class location, and the segment is in satisfactory physical condition, the maximum allowable operating pressure of that segment of pipeline must be confirmed or revised according to one (1) of the following three (3) subparagraphs:

**[1.]A.** If the segment involved has been previously tested in place for a period of not less than eight (8) hours, the maximum allowable operating pressure is 0.8 times the test pressure in Class 2 locations, 0.667 times the test pressure in Class 3 locations, or 0.555 times the test pressure in Class 4 locations. The corresponding hoop stress may not exceed seventy-two percent (72%) of SMYS of the pipe in Class 1 and 2 locations, sixty percent (60%) of SMYS in Class 3 locations or fifty percent (50%) of SMYS in Class 4 locations;

**[2.]B.** The maximum allowable operating pressure of the segment involved must be reduced so that the corresponding hoop stress is not more than that allowed by this rule for new segments of pipelines in the existing class location; or

**[3.]C.** The segment of pipeline involved must be tested in accordance with the applicable requirements of section (10), and its maximum allowable operating pressure must then be established according to the following criteria:

**[A.]I**) The maximum allowable operating pressure after the requalification test is 0.8 times the test pressure for Class 2 locations, 0.667 times the test pressure for Class

3 locations and 0.555 times the test pressure for Class 4 locations; and

**[B.]II**) The corresponding hoop stress may not exceed seventy-two percent (72%) of the SMYS of the pipe in Class 1 and 2 locations, sixty percent (60%) of SMYS in Class 3 locations or fifty percent (50%) of the SMYS in Class 4 locations.

**[4.]J**. The maximum allowable operating pressure confirmed or revised in accordance with this subsection may not exceed the maximum allowable operating pressure established before the confirmation or revision.

**[5.]B**. Confirmation or revision of the maximum allowable operating pressure of a segment of pipeline in accordance with this subsection does not preclude the application of subsections (11)(B) and (C). [(192.553 and 192.555)]

**[6.]A**. Confirmation or revision of the maximum allowable operating pressure that is required as a result of a study under subsection (12)(F) must be completed within twenty-four (24) months of the change in class location. Pressure reduction under paragraph (12)(G)1. or 2. within the twenty-four (24)-month period does not preclude establishing a maximum allowable operating pressure under paragraph (12)(G)3., at a later date.

**(H) Continuing Surveillance.** (192.613)

1. Each operator shall have a procedure for continuing surveillance of its facilities to determine and take appropriate action concerning changes in class location, failures, leakage history, corrosion, substantial changes in cathodic protection requirements, and other unusual operating and maintenance conditions.

2. If a segment of pipeline is determined to be in unsatisfactory condition but no immediate hazard exists, the operator shall initiate a program to recondition or phase out the segment involved or, if the segment cannot be reconditioned or phased out, reduce the maximum allowable operating pressure in accordance with paragraphs (12)(M)1. and 2. [(192.619[a] and [b])]

3. Following an extreme weather event or natural disaster that has the likelihood of damage to pipeline facilities by the scouring or movement of the soil surrounding the pipeline or movement of the pipeline, such as a named tropical storm or hurricane; a flood that exceeds the river, shoreline, or creek high-water banks in the area of the pipeline; a landslide in the area of the pipeline; or an earthquake in the area of the pipeline, an operator must inspect all potentially affected transmission pipeline facilities to detect conditions that could adversely affect the safe operation of that pipeline.

A. An operator must assess the nature of the event and the physical characteristics, operating conditions, location, and prior history of the affected pipeline in determining the appropriate method for performing the initial inspection to determine the extent of any damage and the need for the additional assessments required under this subparagraph.

B. An operator must commence the inspection required by paragraph (12)(H)3. within seventy-two (72) hours after the point in time when the operator reasonably determines that the affected area can be safely accessed by personnel and equipment, and the personnel and equipment required to perform the inspection as determined by subparagraph (12)(H)3.A. are available. If an operator is unable to commence the inspection due to the unavailability of personnel or equipment, the operator must notify the appropriate PHMSA Region Director as soon as practicable.

C. An operator must take prompt and appropriate remedial action to ensure the safe operation of a pipeline based on the information obtained as a result of performing the inspection required by paragraph (12)(H)3. Such actions

might include, but are not limited to –

- (I) Reducing the operating pressure or shutting down the pipeline;
- (II) Modifying, repairing, or replacing any damaged pipeline facilities;
- (III) Preventing, mitigating, or eliminating any unsafe conditions in the pipeline right-of-way;
- (IV) Performing additional patrols, surveys, tests, or inspections;
- (V) Implementing emergency response activities with federal, state, or local personnel; or
- (VI) Notifying affected communities of the steps that can be taken to ensure public safety.

(I) Damage Prevention Program. (192.614)

1. Except for pipelines listed in paragraphs (12)(I)6. and 7., each operator of a buried pipeline shall carry out in accordance with this subsection a written program to prevent damage to that pipeline by excavation activities. For the purpose of this subsection, excavation activities include excavation, blasting, boring, tunneling, backfilling, the removal of aboveground structures by either explosive or mechanical means, and other earthmoving operations. Particular attention should be given to excavation activities in close proximity to cast iron mains with remedial actions taken as required by subsection (13)(Z) of this rule. [(192.755).]

2. An operator may perform any of the duties specified in paragraph (12)(I)3. through participation in a public service program, such as a one-call system, but such participation does not relieve the operator of responsibility for compliance with this subsection. However, an operator must perform the duties of subparagraph (12)(I)3.D. through participation in the qualified one-call system for Missouri. An operator's pipeline system must be covered by the qualified one-call system for Missouri.

3. The damage prevention program required by paragraph (12)(I)1. must, at a minimum –

A. Include the identity, on a current basis, of persons who normally engage in excavation activities in the area in which the pipeline is located. A listing of persons involved in excavation activities shall be maintained and updated at least once each calendar year with intervals not exceeding fifteen (15) months. If an operator chooses to participate in an excavator education program of a one-call notification center, as provided for in subparagraphs (12)(I)3.B. and C., then such updated listing shall be provided to the one-call notification center within the one-call notification center participation renewal period. This list should at least include, but not be limited to, the following:

(I) Excavators, contractors, construction companies, engineering firms, etc. – Identification of these should at least include a search of the phone book yellow pages, checking with the area and/or state office of the Associated General Contractors, and checking with the operating engineers local union hall(s);

- (II) Telephone company;
- (III) Electric utilities and co-ops;
- (IV) Water and sewer utilities;
- (V) City governments;
- (VI) County governments;
- (VII) Special road districts;
- (VIII) Special water and sewer districts; and
- (IX) Highway department district(s);

B. Provide for at least a semiannual general notification of the public in the vicinity of the pipeline. Provide for actual notification of the persons identified in subparagraph (12)(I)3.A., at least once each calendar year at intervals not

exceeding fifteen (15) months by **first class**, registered, or certified mail; **electronic mail**; or notification through participation in an excavator education program of a one-call notification center meeting the requirements of subparagraph (12)(I)3.C. **[Mailings] Notifications** to excavators shall include a copy of the applicable sections of Chapter 319, RSMo, or a summary of the provisions of Chapter 319, RSMo, approved by designated commission personnel, concerning underground facility safety and damage prevention pertaining to excavators. The operator's public notifications and excavator notifications shall include information concerning the existence and purpose of the operator's damage prevention program, as well as information on how to learn the location of underground pipelines before excavation activities are begun;

C. In order to provide for an operator's compliance with the excavator notification requirements of subparagraph (12)(I)3.B., a one-call system's excavator education program must –

(I) Maintain and update a comprehensive listing of excavators who use the one-call notification center and who are identified by the operators pursuant to the requirements of subparagraph (12)(I)3.A.;

(II) Provide for at least semiannual educational **[mailings] notifications** to **each of** the excavators named on the comprehensive listing maintained pursuant to part (12)(I)3.C.(I), by **first class mail**. **Notifications must be made by first class mail or electronic mail**; and

(III) Provide for inclusion of the following in at least one (1) of the semiannual **[mailings] notifications** specified in part (12)(I)3.C.(II): Chapter 319, RSMo, or a summary of the provisions of Chapter 319, RSMo, approved by designated commission personnel, concerning underground facility safety and damage prevention which pertain to excavators; an explanation of the types of temporary markings normally used to identify the approximate location of underground facilities; and a description of the availability and proper use of the one-call system's notification center;

D. Provide a means of receiving and recording notification of planned excavation activities;

E. Include maintenance of records for subparagraphs (12)(I)3.B.–D. as follows:

(I) Copies of the two (2) most recent annual notifications sent to excavators identified in subparagraph (12)(I)3.A., or the four (4) most recent semiannual notifications sent in accordance with subparagraph (12)(I)3.C., must be retained;

(II) Copies of notifications required in subparagraph (12)(I)3.D. shall be retained for at least two (2) years. At a minimum, these records should include the date and the time the request was received, the actions taken pursuant to the request, and the date the response actions were taken; and

(III) Copies of notification records required by Chapter 319, RSMo, to be maintained by the notification center shall be available to the operator for at least five (5) years;

F. If the operator has buried pipelines in the area of excavation activity, provide for actual notification of persons who give notice of their intent to excavate of the type of temporary marking to be provided and how to identify the markings;

G. Provide for temporary marking of buried pipelines in the area of excavation activity before, as far as practical, the activity begins; and

H. Provide as follows for inspection of pipelines that an operator has reason to believe could be damaged by excavation activities:

- (I) The inspection must be done as frequently as

necessary during and after the activities to verify the integrity of the pipeline; and

(II) In the case of blasting, any inspection must include leakage surveys.

4. Each notification identified in subparagraph (12)(I)3.D. should be evaluated to determine the need for and the extent of inspections. The following factors should be considered in determining the need for and extent of those inspections:

A. The type and duration of the excavation activity involved;

B. The proximity to the operator's facilities;

C. The type of excavating equipment involved;

D. The importance of the operator's facilities;

E. The type of area in which the excavation activity is being performed;

F. The potential for serious incident should damage occur;

G. The prior history of the excavator with the operator; and

H. The potential for damage occurring which may not be easily recognized by the excavator.

5. The operator should pay particular attention, during and after excavation activities, to the possibility of joint leaks and breaks due to settlement when excavation activities occur near cast iron and threaded-coupled steel.

6. A damage prevention program under this subsection is not required for the following pipelines:

A. Pipelines to which access is physically controlled by the operator; and

B. Pipelines that are part of a petroleum gas system subject to subsection (1)(F) of this rule [(192.11)] or part of a distribution system operated by a person in connection with that person's leasing of real property or by a condominium or cooperative association.

7. Pipelines operated by persons other than municipalities (including operators of master meters) whose primary activity does not include the transportation of gas need not comply with the following:

A. The requirement of paragraph (12)(I)1. that the damage prevention program be written; and

B. The requirements of subparagraphs (12)(I)3.A., (12)(I)3.B., and (12)(I)3.C.

(J) Emergency Plans. (192.615)

1. Each operator shall establish written procedures to minimize the hazard resulting from a gas pipeline emergency. At a minimum, the procedures must provide for the following:

A. Receiving, identifying, and classifying notices of events which require immediate response by the operator;

B. Establishing and maintaining adequate means of communication with the appropriate public safety answering point (i.e., 9-1-1 emergency call center), where direct access to a 9-1-1 emergency call center is available from the location of the pipeline, and fire, police, and other public officials. Operators may establish liaison with the appropriate local emergency coordinating agencies, such as 9-1-1 emergency call centers or county emergency managers, in lieu of communicating individually with each fire, police, or other public entity. An operator must determine the responsibilities, resources, jurisdictional area(s), and emergency contact telephone number(s) for both local and out-of-area calls of each federal, state, and local government organization that may respond to a pipeline emergency, and inform such officials about the operator's ability to respond to a pipeline emergency and the means of communication during emergencies;

C. Responding promptly and effectively to a notice of each type of emergency, including the following:

(I) Gas detected inside or near a building;

(II) Fire located near or directly involving a pipeline facility;

(III) Explosion occurring near or directly involving a pipeline facility; and

(IV) Natural disaster;

D. Making available personnel, equipment, tools, and materials, as needed at the scene of an emergency;

E. Taking actions directed toward protecting people first and then property;

F. Taking necessary actions, including but not limited to emergency shutdown, valve shut-off, or pressure reduction, in any section of the operator's pipeline system, to minimize hazards of released gas to life, property, or the environment;

G. Making safe any actual or potential hazard to life or property;

H. Notifying the appropriate public safety answering point (i.e., 9-1-1 emergency call center) where direct access to a 9-1-1 emergency call center is available from the location of the pipeline, and fire, police, and other public officials, of gas pipeline emergencies to coordinate and share information to determine the location of the emergency, including both planned responses and actual responses during an emergency. The operator must immediately and directly notify the appropriate public safety answering point or other coordinating agency for the communities and jurisdictions in which the pipeline is located after receiving a notification of potential rupture, as defined in subsection (1)(B), to coordinate and share information to determine the location of any release, regardless of whether the segment is subject to the requirements of subsections (4)(U), (12)(X), or (12)(Z);

I. Safely restoring any service outage;

J. Beginning action under subsection (12)(L) [(192.617)], if applicable, as soon after the end of the emergency as possible;

K. Actions required to be taken by a controller during an emergency in accordance with the operator's emergency plans and requirements set forth in subsections (12)(T), (12)(X), and (12)(Z); and

L. Each operator must develop written rupture identification procedures to evaluate and identify whether a notification of potential rupture, as defined in subsection (1)(B), is an actual rupture event or a non-rupture event. These procedures must, at a minimum, specify the sources of information, operational factors, and other criteria that operator personnel use to evaluate a notification of potential rupture and identify an actual rupture. For operators installing valves in accordance with paragraph (4)(U)4., paragraph (4)(U)5., or that are subject to the requirements in subsection (12)(X), those procedures must provide for rupture identification as soon as practicable.

2. Each operator shall –

A. Furnish its supervisors who are responsible for emergency action a copy of that portion of the latest edition of the emergency procedures established under paragraph (12)(J)1. as necessary for compliance with those procedures;

B. Train the appropriate operating personnel and conduct an annual review to assure that they are knowledgeable of the emergency procedures and verify that the training is effective; and

C. Review employee activities to determine whether the procedures were effectively followed in each emergency.

3. Each operator must establish and maintain liaison with the appropriate public safety answering point (i.e., 9-1-1 emergency call center) where direct access to a 9-1-1 emergency call center is available from the location of the

pipeline, as well as fire, police, and other public officials to –

A. Learn the responsibility and resources of each government organization that may respond to a gas pipeline emergency;

B. Acquaint the officials with the operator's ability in responding to a gas pipeline emergency;

C. Identify the types of gas pipeline emergencies of which the operator notifies the officials; and

D. Plan how the operator and officials can engage in mutual assistance to minimize hazards to life or property.

(K) Public Awareness. (192.616)

1. Except for an operator of a master meter system covered under paragraph (12)(K)10., each pipeline operator must develop and implement a written continuing public education program that follows the guidance provided in the *American Petroleum Institute's (API) Recommended Practice (RP) 1162* (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)). In addition, the program must provide for notification of the intended groups *[on]* according to the following schedule:

A. Appropriate government organizations and persons engaged in excavation related activities must be notified at least annually;

B. The public must be notified at least semiannually; *[and]*

C. Customers must be notified at least semiannually by mailings or hand-delivered messages *[and at least nine (9) times a calendar year by billing messages.]*

D. **Customers must be notified at least nine (9) times each calendar year by billing messages;**

E. A combination of notifications may be used to meet the requirements of subparagraph (12)(K)1.A. as long as educational content that addresses each of the topics listed in paragraph (12)(K)4. is provided at least annually;

F. A combination of notifications may be used to meet the requirements of subparagraphs (12)(K)1.B. and (12)(K)1.C. as long as educational content that addresses each of the topics listed in paragraph (12)(K)4. is provided at least semiannually; and

G. Each billing message notification required by subparagraph (12)(K)1.D. must at a minimum include educational content that addresses subparagraphs (12)(K)4.A. and (12)(K)4.E.

2. The operator's program must follow the general program recommendations of API RP 1162 and assess the unique attributes and characteristics of the operator's pipeline and facilities.

3. The operator must follow the general program recommendations, including baseline and supplemental requirements of API RP 1162, unless the operator provides justification in its program or procedural manual as to why compliance with all or certain provisions of the recommended practice is not practicable and not necessary for safety.

4. The operator's program must specifically include provisions to educate the public, appropriate government organizations, and persons engaged in excavation related activities *[on:]*–

A. Use of a one-call notification system prior to excavation and other damage prevention activities;

B. Possible hazards associated with unintended releases from a gas pipeline facility;

C. Physical indications that such a release may have occurred;

D. Steps that should be taken for public safety in the event of a gas pipeline release; and

E. Procedures for reporting such an event.

5. The program must include activities to advise affected municipalities, school districts, businesses, and residents of pipeline facility locations.

6. The program and the media used must be as comprehensive as necessary to reach all areas in which the operator transports gas.

7. The program must be conducted in English and in other languages commonly understood by a significant number and concentration of the non-English speaking population in the operator's area.

8. Operators in existence on June 20, 2005, must have completed their written programs no later than June 20, 2006. The operator of a master meter covered under paragraph (12)(K)10. must complete development of its written procedure by June 13, 2008. Operators must submit their completed programs and any program changes to designated commission personnel as required by subsection (1)(J).

9. The operator's program documentation and evaluation results must be available for periodic review by designated commission personnel.

10. Unless the operator transports gas as a primary activity, the operator of a master meter is not required to develop a public awareness program as prescribed in paragraphs (12)(K)1.–7. Instead the operator must develop and implement a written procedure to provide its customers public awareness messages twice annually. If the master meter is located on property the operator does not control, the operator must provide similar messages twice annually to persons controlling the property. The public awareness message must include~~f.~~–

A. A description of the purpose and reliability of the pipeline;

B. An overview of the hazards of the pipeline and prevention measures used;

C. Information about damage prevention;

D. How to recognize and respond to a leak; and

E. How to get additional information.

(L) Investigation of Failures and Incidents. (192.617)

1. Post-failure and incident procedures. Each operator must establish and follow procedures for investigating and analyzing failures and federal incidents as defined in 20 CSR 4240-40.020(2)(D), including sending the failed pipe, component, or equipment for laboratory testing or examination, where appropriate, for the purpose of determining the causes and contributing factor(s) of the failure or incident and minimizing the possibility of a recurrence.

2. Post-failure and incident lessons learned. Each operator of a transmission or distribution pipeline must develop, implement, and incorporate lessons learned from a post-failure or incident review into its written procedures, including personnel training and qualification programs~~f.~~; and design, construction, testing, maintenance, operations, and emergency procedure manuals and specifications.

3. Analysis of rupture and valve shutoffs. If an incident on a gas transmission pipeline *[or a Type A gathering pipeline]* involves the closure of a rupture-mitigation valve (RMV), as defined in subsection (1)(B), or the closure of alternative equivalent technology, the operator of the pipeline must also conduct a post-incident analysis of all of the factors that may have impacted the release volume and the consequences of the incident and identify and implement operations and maintenance measures to prevent or minimize the consequences of a future incident. The requirements of this paragraph are not applicable to gas distribution *[pipelines]* or *[Types B and C]* gas gathering pipelines. The analysis must include all relevant factors impacting the release volume and

consequences, including but not limited to the following:

A. Detection, identification, operational response, system shut-off, and emergency response communications, based on the type and volume of the incident;

B. Appropriateness and effectiveness of procedures and pipeline systems, including supervisory control and data acquisition (SCADA), communications, valve shut-off, and operator personnel;

C. Actual response time from identifying a rupture following a notification of potential rupture, as defined in subsection (1)(B), to initiation of mitigative actions and isolation of the pipeline segment, and the appropriateness and effectiveness of the mitigative actions taken;

D. Location and timeliness of actuation of RMVs or alternative equivalent technologies; and

E. All other factors the operator deems appropriate.

4. Rupture post-failure and incident summary. If a failure or incident on a gas transmission pipeline [*or a Type A gathering pipeline*] involves the identification of a rupture following a notification of potential rupture, or the closure of an RMV (as those terms are defined in subsection (1)(B)), or the closure of an alternative equivalent technology, the operator of the pipeline must complete a summary of the post-failure or incident review required by paragraph (12)(L)3. within ninety (90) days of the incident, and while the investigation is pending, conduct quarterly status reviews until the investigation is complete and a final post-incident summary is prepared. The final post-failure or incident summary, and all other reviews and analyses produced under the requirements of this subsection, must be reviewed, dated, and signed by the operator's appropriate senior executive officer. The final post-failure or incident summary, all investigation and analysis documents used to prepare it, and records of lessons learned must be kept for the useful life of the pipeline. The requirements of this paragraph are not applicable to **gas distribution [pipelines]** or **[Types B and C]** gas gathering pipelines.

(M) Maximum Allowable Operating Pressure—Steel or Plastic Pipelines. (192.619 and 192.620)

1. Except as provided in paragraphs (12)(M)3., 4., and 6., no person may operate a segment of steel or plastic pipeline at a pressure that exceeds the lowest of the following:

A. The design pressure of the weakest element in the segment, determined in accordance with sections (3) and (4). However, for steel pipe in pipelines being converted under subsection (1)(H) or uprated under section (11), if any variable necessary to determine the design pressure under the design formula in subsection (3)(C) is unknown, one (1) of the following pressures is to be used as design pressure:

(I) Eighty percent (80%) of the first test pressure that produces yield under section N5 of Appendix N of ASME B31.8 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), reduced by the appropriate factor in part (12)(M)1.B.(II); or

(II) If the pipe is twelve and three-quarter inches (12 3/4") (three hundred twenty-four (324) mm) or less in outside diameter and is not tested to yield under this paragraph, two hundred (200) psi (one thousand three hundred seventy-nine (1379) kPa) gauge;

B. The pressure obtained by dividing the highest pressure to which the segment was tested after construction or uprated as follows:

(I) For plastic pipe in all locations, the test pressure is divided by a factor of 1.5; and

(II) For steel pipe operated at one hundred (100) psi (six hundred eighty-nine (689) kPa) gauge or more, the test

pressure is divided by a factor determined in accordance with the following table:

| Class Location | Factors <sup>1,2</sup> , Segment – |  |                                    |  |
|----------------|------------------------------------|--|------------------------------------|--|
|                | Installed before Nov. 12, 1970     | Installed after Nov. 11, 1970, and before July 1, 2020 | Installed on or after July 1, 2020 | Converted under subsection (1)(H) (192.14) |
| 1              | 1.1                                | 1.1  | 1.25                               | 1.25                                       |
| 2              | 1.25                               | 1.25   | 1.25                               | 1.25                                       |
| 3              | 1.4                                | 1.5  | 1.5                                | 1.5  |
| 4              | 1.4                                | 1.5  | 1.5                                | 1.5  |

<sup>1</sup>For segments installed, uprated, or converted after July 31, 1977, that are located on a platform in inland navigable waters, including a pipe riser, the factor is 1.5.

<sup>2</sup>For a component with a design pressure established in accordance with paragraphs (4)(H)1. or (4)(H)2. of this rule [(192.153(a) or (b))] installed after July 14, 2004, the factor is 1.3;

C. The highest actual operating pressure to which the segment was subjected during the five (5) years preceding the applicable date in the second column. This pressure restriction applies unless the segment was tested in accordance with subparagraph (12)(M)1.B. after the applicable date in the third column or the segment was uprated in accordance with section (11); and

| Pipeline Segment   | Pressure Date  | Test Date  |
|--|--|--|
| Onshore regulated gathering pipeline (Type A or Type B under paragraph (1) (E)2.) that first became subject to this rule after April 13, 2006 (see subsection (1)(E)). | March 15, 2006, or date line becomes subject to this rule, whichever is later.   | Five (5) years preceding applicable date in second column. |
| Onshore regulated gathering pipeline (Type C under paragraph (1) (E)2.) that first became subject to this rule on or after May 16, 2022.                               | May 16, 2023, or date pipeline becomes subject to this rule, whichever is later. | Five (5) years preceding applicable date in second column. |
| Onshore transmission pipeline that was a gathering line not subject to this rule before March 15, 2006 (see subsection (1)(E)).  | March 15, 2006, or date line becomes subject to this rule, whichever is later.   | Five (5) years preceding applicable date in second column. |
| All other pipelines.   | July 1, 1970   | July 1, 1965   |

D. The pressure determined by the operator to be the maximum safe pressure after considering and accounting for records of material properties, including material properties verified in accordance with subsection (12)(E), if applicable, and the history of the pipeline segment, including known corrosion and the actual operating pressure.

2. No person may operate a segment of pipeline to which this subsection applies unless overpressure protective devices are installed for the segment in a manner that will prevent the maximum allowable operating pressure from being exceeded, in accordance with subsection (4)(CC) of this rule. [(192.195)]

3. The requirements on pressure restrictions in this subsection do not apply in the following instances:

A. An operator may operate a segment of pipeline found to be in satisfactory condition, considering its operating and maintenance history, at the highest actual operating pressure to which the segment was subjected during the five (5) years preceding the applicable date in the second column of the table in subparagraph (12)(M)1.C. An operator must still comply with subsection (12)(G); and

B. For any Type C gas gathering pipeline under [subsection] paragraph (1)(E)2. [of this rule (192.9)] existing on or before May 16, 2022, that was not previously subject to this rule and the operator cannot determine the actual operating pressure of the pipeline for the five (5) years preceding May 16, 2023, the operator may establish MAOP using other criteria based on a combination of operating conditions, other tests, and design with approval from PHMSA. The operator must notify PHMSA in accordance with subsection (1)(M) of this rule. The notification must include the following information:

(I) The proposed MAOP of the pipeline;

(II) Description of pipeline segment for which alternate methods are used to establish MAOP, including diameter, wall thickness, pipe grade, seam type, location, endpoints, other pertinent material properties, and age;

(III) Pipeline operating data, including operating history and maintenance history;

(IV) Description of methods being used to establish MAOP;

(V) Technical justification for use of the methods chosen to establish MAOP; and

(VI) Evidence of review and acceptance of the justification by a qualified technical subject matter expert.

4. No person may operate a pipeline at a pressure that results in a hoop stress greater than seventy-two percent (72%) of SMYS.

5. Notwithstanding the requirements in paragraphs (12)(M)1. through 4., operators of steel transmission pipelines that meet the criteria specified in paragraph (12)(U)1. must establish and document the maximum allowable operating pressure in accordance with subsection (12)(U).

6. Operators of steel transmission pipelines must make and retain records necessary to establish and document the MAOP of each pipeline segment in accordance with paragraphs (12)(M)1. through 5. as follows:

A. Operators of pipelines in operation as of July 1, 2020, must retain any existing records establishing MAOP for the life of the pipeline;

B. Operators of pipelines in operation as of July 1, 2020, that do not have records establishing MAOP and are required to reconfirm MAOP in accordance with subsection (12)(U), must retain the records reconfirming MAOP for the life of the pipeline; and

C. Operators of pipelines placed in operation after July 1, 2020, must make and retain records establishing MAOP for the life of the pipeline.

7. Alternative maximum allowable operating pressure for certain steel pipelines. (192.620) The federal regulations at 49 CFR 192.620 are not adopted in this rule.

(N) Maximum Allowable Operating Pressure – High-Pressure Distribution Systems. (192.621)

1. No person may operate a segment of a high pressure distribution system at a pressure that exceeds the lowest of the following pressures, as applicable:

A. The design pressure of the weakest element in the segment, determined in accordance with sections (3) and (4);

B. Sixty (60) psi (414 kPa) gauge, for a segment of a distribution system otherwise designated to operate at over sixty (60) psi (414 kPa) gauge, unless the service lines in

the segment are equipped with service regulators or other pressure limiting devices in series that meet the requirements of subsection (4)(DD) [(192.197(c))];

C. Twenty-five (25) psi (172 kPa) gauge in segments of cast iron pipe in which there are unreinforced bell and spigot joints;

D. The pressure limits to which a joint could be subjected without the possibility of its parting; and

E. The pressure determined by the operator to be the maximum safe pressure after considering the history of the segment, particularly known corrosion and the actual operating pressures.

2. No person may operate a segment of pipeline to which this subsection applies, unless overpressure protective devices are installed for the segment in a manner that will prevent the maximum allowable operating pressure from being exceeded, in accordance with subsection (4)(CC). [(192.195)]

(U) Maximum Allowable Operating Pressure Reconfirmation: Steel Transmission Pipelines. (192.624)

1. Applicability. Operators of steel transmission pipeline segments must reconfirm the maximum allowable operating pressure (MAOP) of all pipeline segments in accordance with the requirements of this section if either of the following conditions are met:

A. Records necessary to establish the MAOP in accordance with subparagraph (12)(M)1.B., including records required by paragraph (10)(I)1., are not traceable, verifiable, and complete and the pipeline is located in one (1) of the following locations:

(I) A high consequence area as defined in 49 CFR 192.903 (incorporated by reference in section (16)); or

(II) A Class 3 or Class 4 location.;

B. The pipeline segment's MAOP was established in accordance with paragraph (12)(M)3., the pipeline segment's MAOP is greater than or equal to thirty percent (30%) of the specified minimum yield strength, and the pipeline segment is located in one (1) of the following areas:

(I) A high consequence area as defined in 49 CFR 192.903 (incorporated by reference in section (16));

(II) A Class 3 or Class 4 location; or

(III) A "moderate consequence area" as defined in subsection (1)(B), if the pipeline segment can accommodate inspection by means of instrumented inline inspection tools.

2. Procedures and completion dates. Operators of a pipeline subject to this subsection must develop and document procedures for completing all actions required by this section by July 1, 2021. These procedures must include a process for reconfirming MAOP for any pipelines that meet a condition of paragraph (12)(U)1., and for performing a spike test or material verification in accordance with subsections (10)(K) and (12)(E), if applicable. All actions required by this subsection must be completed according to the following schedule:

A. Operators must complete all actions required by this subsection on at least fifty percent (50%) of the pipeline mileage by July 3, 2028;

B. Operators must complete all actions required by this subsection on one-hundred percent (100%) of the pipeline mileage by July 2, 2035, or as soon as practicable, but not to exceed four (4) years after the pipeline segment first meets a condition of paragraph (12)(U)1. (e.g., due to a location becoming a high consequence area), whichever is later; and

C. If operational and environmental constraints limit an operator from meeting the deadlines in this subsection, the operator may petition for an extension of the completion deadlines by up to one (1) year, upon submittal of a notification in accordance with subsection (1)(M) [(192.18)]. The

notification must include an up-to-date plan for completing all actions in accordance with this subsection, the reason for the requested extension, current status, proposed completion date, outstanding remediation activities, and any needed temporary measures needed to mitigate the impact on safety.

3. Maximum allowable operating pressure determination. Operators of a pipeline segment meeting a condition in paragraph (12)(U)1. must reconfirm its MAOP using one (1) of the following methods:

A. Method 1: Pressure test. Perform a pressure test and verify material properties records in accordance with subsection (12)(E) and the following requirements:

(I) Pressure test. Perform a pressure test in accordance with section (10). The MAOP must be equal to the test pressure divided by the greater of either 1.25 or the applicable class location factor in **part** (12)(M)1.B.(II);

(II) Material properties records. Determine if the following material properties records are documented in traceable, verifiable, and complete records: diameter, wall thickness, seam type, and grade (minimum yield strength, ultimate tensile strength); and

(III) Material properties verification. If any of the records required by **part** (12)(U)3.A.(II) are not documented in traceable, verifiable, and complete records, the operator must obtain the missing records in accordance with subsection (12)(E). An operator must test the pipe materials cut out from the test manifold sites at the time the pressure test is conducted. If there is a failure during the pressure test, the operator must test any removed pipe from the pressure test failure in accordance with subsection (12)(E);

B. Method 2: Pressure Reduction. Reduce pressure, as necessary, and limit MAOP to no greater than the highest actual operating pressure sustained by the pipeline during the five (5) years preceding October 1, 2019, divided by the greater of 1.25 or the applicable class location factor in **part** (12)(M)1.B.(II). The highest actual sustained pressure must have been reached for a minimum cumulative duration of eight (8) hours during a continuous thirty- (30-) day period. The value used as the highest actual sustained operating pressure must account for differences between upstream and downstream pressure on the pipeline by use of either the lowest maximum pressure value for the entire pipeline segment or using the operating pressure gradient along the entire pipeline segment (i.e., the location-specific operating pressure at each location).

(I) Where the pipeline segment has had a class location change in accordance with subsection (12)(G), and records documenting diameter, wall thickness, seam type, grade (minimum yield strength and ultimate tensile strength), and pressure tests are not documented in traceable, verifiable, and complete records, the operator must reduce the pipeline segment MAOP as follows:

(a) For pipeline segments where a class location changed from Class 1 to Class 2, from Class 2 to Class 3, or from Class 3 to Class 4, reduce the pipeline MAOP to no greater than the highest actual operating pressure sustained by the pipeline during the five (5) years preceding October 1, 2019, divided by 1.39 for Class 1 to Class 2, 1.67 for Class 2 to Class 3, and 2.00 for Class 3 to Class 4; and

(b) For pipeline segments where a class location changed from Class 1 to Class 3, reduce the pipeline MAOP to no greater than the highest actual operating pressure sustained by the pipeline during the five (5) years preceding October 1, 2019, divided by 2.00.

(II) Future uprating of the pipeline segment in accordance with section (11) is allowed if the MAOP is established using Method 2.

(III) If an operator elects to use Method 2, but desires to use a less conservative pressure reduction factor or longer look-back period, the operator must notify PHMSA in accordance with subsection (1)(M) [(192.18)] no later than seven (7) calendar days after establishing the reduced MAOP. The notification must include the following details:

(a) Descriptions of the operational constraints, special circumstances, or other factors that preclude, or make it impractical, to use the pressure reduction factor specified in subparagraph (12)(U)3.B.;

(b) The fracture mechanics modeling for failure stress pressures and cyclic fatigue crack growth analysis that complies with subsection (13)(EE);

(c) Justification that establishing MAOP by another method allowed by this subsection is impractical;

(d) Justification that the reduced MAOP determined by the operator is safe based on analysis of the condition of the pipeline segment, including material properties records, material properties verified in accordance with subsection (12)(E), and the history of the pipeline segment, particularly known corrosion and leakage, and the actual operating pressure, and additional compensatory preventive and mitigative measures taken or planned; and

(e) Planned duration for operating at the requested MAOP, long-term remediation measures and justification of this operating time interval, including fracture mechanics modeling for failure stress pressures and cyclic fatigue growth analysis and other validated forms of engineering analysis that have been reviewed and confirmed by subject matter experts;

C. Method 3: Engineering **[C]**critical **[A]**ssessment (ECA). Conduct an ECA in accordance with subsection (12)(V);

D. Method 4: Pipe **[R]**eplacement. Replace the pipeline segment in accordance with this rule;

E. Method 5: Pressure **[R]**eduction for **[P]**ipeline **[S]**egments with **[S]**mall **[P]**otential **[I]**mpact **[R]**adius. Pipelines with a potential impact radius (PIR) less than or equal to one-hundred-fifty (150) feet may establish the MAOP as follows:

(I) Reduce the MAOP to no greater than the highest actual operating pressure sustained by the pipeline during five (5) years preceding October 1, 2019, divided by 1.1. The highest actual sustained pressure must have been reached for a minimum cumulative duration of eight (8) hours during one continuous thirty- (30-) day period. The reduced MAOP must account for differences between discharge and upstream pressure on the pipeline by use of either the lowest value for the entire pipeline segment or the operating pressure gradient (i.e., the location specific operating pressure at each location);

(II) Conduct patrols in accordance with paragraphs (13)(C)1. and 3. and conduct instrumented leakage surveys in accordance with subsection (13)(D) at intervals not to exceed those in the following **[t]able** 1:

**Table 1**

| Class <b>[I]</b> Locations | Patrols   | Leakage <b>[s]</b> Surveys                                |
|----------------------------|---|---|
| (A) Class 1 and Class 2    | 3½ months, but at least four (4) times each calendar year | 3½ months, but at least four (4) times each calendar year |
| (B) Class 3 and Class 4    | 3 months, but at least six (6) times each calendar year   | 3 months, but at least six (6) times each calendar year   |

(III) Under Method 5, future uprating of the pipeline segment in accordance with section (11) is allowed; or

F. Method 6: Alternative Technology. Operators may

use an alternative technical evaluation process that provides a documented engineering analysis for establishing MAOP. If an operator elects to use alternative technology, the operator must notify PHMSA in advance in accordance with subsection (1)(M) [(192.18)]. The notification must include descriptions of the following details:

(I) The technology or technologies to be used for tests, examinations, and assessments; the method for establishing material properties; and analytical techniques with similar analysis from prior tool runs done to ensure the results are consistent with the required corresponding hydrostatic test pressure for the pipeline segment being evaluated;

(II) Procedures and processes to conduct tests, examinations, assessments and evaluations, analyze defects and flaws, and remediate defects discovered;

(III) Pipeline segment data, including original design, maintenance and operating history, anomaly or flaw characterization;

(IV) Assessment techniques and acceptance criteria, including anomaly detection confidence level, probability of detection, and uncertainty of the predicted failure pressure quantified as a fraction of specified minimum yield strength;

(V) If any pipeline segment contains cracking or may be susceptible to cracking or crack-like defects found through or identified by assessments, leaks, failures, manufacturing vintage histories, or any other available information about the pipeline, the operator must estimate the remaining life of the pipeline in accordance with subsection (13)(EE);

(VI) Operational monitoring procedures;

(VII) Methodology and criteria used to justify and establish the MAOP; and

(VIII) Documentation of the operator's processes and procedures used to implement the use of the alternative technology, including any records generated through its use.

4. Records. An operator must retain records of investigations, tests, analyses, assessments, repairs, replacements, alterations, and other actions taken in accordance with the requirements of this subsection for the life of the pipeline.

(V) Engineering Critical Assessment for Maximum Allowable Operating Pressure Reconfirmation: Steel Transmission Pipelines. (192.632) When an operator conducts an MAOP reconfirmation in accordance with subparagraph (12)(U)3.C. "Method 3" using an ECA to establish the material strength and MAOP of the pipeline segment, the ECA must comply with the requirements of this section. The ECA must assess: threats; loadings, and operational circumstances relevant to those threats, including along the pipeline right-of way; outcomes of the threat assessment; relevant mechanical and fracture properties; in-service degradation or failure processes; and initial and final defect size relevance. The ECA must quantify the interacting effects of threats on any defect in the pipeline.

#### 1. ECA Analysis.

A. The material properties required to perform an ECA analysis in accordance with paragraph (12)(V)1. are as follows: Diameter, wall thickness, seam type, grade (minimum yield strength and ultimate tensile strength), and Charpy v-notch toughness values based upon the lowest operational temperatures, if applicable. If any material properties required to perform an ECA for any pipeline segment in accordance with paragraph (12)(V)1. are not documented in traceable, verifiable, and complete records, an operator must use conservative assumptions and include the pipeline segment in its program to verify the undocumented information in accordance with subsection (12)(E). The ECA must integrate, analyze, and account for the material properties, the results of all tests, direct examinations, destructive tests, and

assessments performed in accordance with subsection (12)(V), along with other pertinent information related to pipeline integrity, including close interval surveys, coating surveys, interference surveys required by section (9), cause analyses of prior incidents, prior pressure test leaks and failures, other leaks, pipe inspections, and prior integrity assessments, including those required by subsections (12)(L) and (13)(DD) and section (16).

B. The ECA must analyze and determine the predicted failure pressure for the defect being assessed using procedures that implement the appropriate failure criteria and justification as follows:

(I) The ECA must analyze any cracks or crack-like defects remaining in the pipe, or that could remain in the pipe, to determine the predicted failure pressure of each defect in accordance with subsection (13)(EE);

(II) The ECA must analyze any metal loss defects not associated with a dent, including corrosion, gouges, scrapes, or other metal loss defects that could remain in the pipe, to determine the predicted failure pressure. ASME/ANSI B31G (incorporated by reference in 49 CFR 192.7 and adopted in (1)(D)) or R-STRENG (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)) must be used for corrosion defects. Both procedures and their analysis apply to corroded regions that do not penetrate the pipe wall over eighty percent (80%) of the wall thickness and are subject to the limitations prescribed in the equations' procedures. The ECA must use conservative assumptions for metal loss dimensions (length, width, and depth);

(III) When determining the predicted failure pressure for gouges, scrapes, selective seam weld corrosion, crack-related defects, or any defect within a dent, appropriate failure criteria and justification of the criteria must be used and documented; and

(IV) If SMYS or actual material yield and ultimate tensile strength is not known or not documented by traceable, verifiable, and complete records, then the operator must assume thirty thousand (30,000) psi or determine the material properties using subsection (12)(E).

C. The ECA must analyze the interaction of defects to conservatively determine the most limiting predicted failure pressure. Examples include, but are not limited to, cracks in or near locations with corrosion metal loss, dents with gouges or other metal loss, or cracks in or near dents or other deformation damage. The ECA must document all evaluations and any assumptions used in the ECA process.

D. The MAOP must be established at the lowest predicted failure pressure for any known or postulated defect, or interacting defects, remaining in the pipe divided by the greater of 1.25 or the applicable factor listed in part (12)(M)1.B.(II).

2. Assessment to determine defects remaining in the pipe. An operator must utilize previous pressure tests or develop and implement an assessment program to determine the size of defects remaining in the pipe to be analyzed in accordance with paragraph (12)(V)1.

A. An operator may use a previous pressure test that complied with section (10) to determine the defects remaining in the pipe if records for a pressure test meeting the requirements of section (10) exist for the pipeline segment. The operator must calculate the largest defect that could have survived the pressure test. The operator must predict how much the defects have grown since the date of the pressure test in accordance with subsection (13)(EE). The ECA must analyze the predicted size of the largest defect that could have survived the pressure test that could remain in the pipe

at the time the ECA is performed. The operator must calculate the remaining life of the most severe defects that could have survived the pressure test and establish a reassessment interval in accordance with the methodology in subsection (13)(EE).

B. Operators may use an inline inspection program in accordance with paragraph (12)(V)3.

C. Operators may use "other technology" if it is validated by a subject-matter expert to produce an equivalent understanding of the condition of the pipe equal to or greater than pressure testing or an inline inspection program. If an operator elects to use "other technology" in the ECA, it must notify PHMSA in advance of using the "other technology" in accordance with subsection (1)(M) [(192.18)]. The "other technology" notification must have –

(I) Descriptions of the technology or technologies to be used for all tests, examinations, and assessments, including characterization of defect size used in the crack assessments (length, depth, and volumetric); and

(II) Procedures and processes to conduct tests, examinations, assessments and evaluations, analyze defects, and remediate defects discovered.

3. In-line inspection. An inline inspection (ILI) program to determine the defects remaining in the pipe for the ECA analysis must be performed using tools that can detect wall loss, deformation from dents, wrinkle bends, ovalities, expansion, seam defects, including cracking and selective seam weld corrosion, longitudinal, circumferential and girth weld cracks, hard spot cracking, and stress corrosion cracking.

A. If a pipeline has segments that might be susceptible to hard spots based on assessment, leak, failure, manufacturing vintage history, or other information, then the ILI program must include a tool that can detect hard spots.

B. If the pipeline has had a reportable federal incident, as defined in 20 CFR 4240-40.020(2)(D), attributed to a girth weld failure since its most recent pressure test, then the ILI program must include a tool that can detect girth weld defects unless the ECA analysis performed in accordance with this section includes an engineering evaluation program to analyze and account for the susceptibility of girth weld failure due to lateral stresses.

C. Inline inspection must be performed in accordance with subsection (9)(X).

D. An operator must use unity plots or equivalent methodologies to validate the performance of the ILI tools in identifying and sizing actionable manufacturing and construction related anomalies. Enough data points must be used to validate tool performance at the same or better statistical confidence level provided in the tool specifications. The operator must have a process for identifying defects outside the tool performance specifications and following up with the ILI vendor to conduct additional in-field examinations, reanalyze ILI data, or both.

E. Interpretation and evaluation of assessment results must meet the requirements of subsections (13)(H) and (13)(DD) and section (16), and must conservatively account for the accuracy and reliability of ILI, in-the-ditch examination methods and tools, and any other assessment and examination results used to determine the actual sizes of cracks, metal loss, deformation, and other defect dimensions by applying the most conservative limit of the tool tolerance specification. ILI and in-the-ditch examination tools and procedures for crack assessments (length and depth) must have performance and evaluation standards confirmed for accuracy through confirmation tests for the defect types and pipe material vintage being evaluated. Inaccuracies must be accounted

for in the procedures for evaluations and fracture mechanics models for predicted failure pressure determinations.

F. Anomalies detected by ILI assessments must be remediated in accordance with applicable criteria in subsection (13)(H) and 49 CFR 192.933 (incorporated by reference in section (16)).

4. Defect remaining life. If any pipeline segment contains cracking or may be susceptible to cracking or crack-like defects found through or identified by assessments, leaks, failures, manufacturing vintage histories, or any other available information about the pipeline, the operator must estimate the remaining life of the pipeline in accordance with subsection (13)(EE).

5. Records. An operator must retain records of investigations, tests, analyses, assessments, repairs, replacements, alterations, and other actions taken in accordance with the requirements of this subsection for the life of the pipeline.

(W) Change in Class Location – Change in Valve Spacing. (192.610)

1. If a class location change on a transmission pipeline occurs after October 5, 2022, and results in pipe replacement, of two (2) or more miles, in the aggregate, within any five (5) contiguous miles within a twenty-four- (24-) month period, to meet the maximum allowable operating pressure (MAOP) requirements in subsections (12)(G) or (12)(M), then the requirements in subsections (4)(U), (12)(X), and (12)(Z), as applicable, apply to the new class location, and the operator must install valves, including rupture-mitigation valves (RMV) or alternative equivalent technologies, as necessary, to comply with those subsections. Such valves must be installed within twenty-four (24) months of the class location change in accordance with the timing requirement in paragraph (12)(G)6. for compliance after a class location change.

2. If a class location change on a gas transmission pipeline occurs after October 5, 2022, and results in pipe replacement of less than two (2) miles within five (5) contiguous miles during a twenty-four- (24-) month period, to meet the MAOP requirements in subsection (12)(G) or (12)(M), then within twenty-four (24) months of the class location change, in accordance with paragraph (12)(G)6., the operator must either –

A. Comply with the valve spacing requirements of paragraph (4)(U)1. for the replaced pipeline segment; or

B. Install or use existing RMVs or alternative equivalent technologies so that the entirety of the replaced pipeline segments are between at least two (2) RMVs or alternative equivalent technologies. The distance between RMVs and alternative equivalent technologies for the replaced segment must not exceed twenty (20) miles. The RMVs and alternative equivalent technologies must comply with the applicable requirements of subsection (12)(Z).

3. The provisions of paragraph (12)(W)2. do not apply to pipeline replacements that amount to less than one thousand feet (1,000') within any one (1) contiguous mile during any twenty-four- (24-) month period.

(X) Transmission Lines – Valve Shut-Off for Rupture Mitigation. (192.634)

1. Applicability. For new or entirely replaced transmission pipeline segments with diameters of six inches (6") or greater that are located in high-consequence areas (HCA) or Class 3 or Class 4 locations and that are installed after April 10, 2023, an operator must install or use existing rupture mitigation valves (RMV), or an alternative equivalent technology, according to the requirements of this subsection and subsections (4)(U) and (12)(Z). RMVs and alternative equivalent technologies must be operational within fourteen (14) days of placing the

new or replaced pipeline segment into service. An operator may request an extension of this fourteen- (14-) day operation requirement if it can demonstrate to PHMSA, in accordance with the notification procedures in subsection (1)(M), that application of that requirement would be economically, technically, or operationally infeasible. The requirements of this subsection apply to all applicable pipe replacement projects, even those that do not otherwise involve the addition or replacement of a valve. This subsection does not apply to pipe segments in Class 1 or Class 2 locations that have a potential impact radius (PIR), as defined in 49 CFR 192.903 (incorporated by reference in section (16)), that is less than or equal to one hundred fifty feet (150').

2. Maximum spacing between valves. RMVs, or alternative equivalent technology, must be installed in accordance with the following requirements:

A. Shut-off segment. For purposes of this subsection, a "shut-off segment" means the segment of pipe located between the upstream valve closest to the upstream endpoint of the new or replaced Class 3 or Class 4 or HCA pipeline segment and the downstream valve closest to the downstream endpoint of the new or replaced Class 3 or Class 4 or HCA pipeline segment so that the entirety of the segment that is within the HCA or the Class 3 or Class 4 location is between at least two (2) RMVs or alternative equivalent technologies. If any crossover or lateral pipe for gas receipts or deliveries connects to the shut-off segment between the upstream and downstream valves, the shut-off segment also must extend to a valve on the crossover connection(s) or lateral(s), such that, when all valves are closed, there is no flow path for gas to be transported to the rupture site (except for residual gas already in the shut-off segment). Multiple Class 3 or Class 4 locations or HCA segments may be contained within a single shut-off segment. The operator is not required to select the closest valve to the shut-off segment as the RMV, as that term is defined in subsection (1)(B), or the alternative equivalent technology. An operator may use a manual compressor station valve at a continuously manned station as an alternative equivalent technology, but it must be able to be closed within thirty (30) minutes following rupture identification, as that term is defined in subsection (1)(B). Such a valve used as an alternative equivalent technology would not require a notification to PHMSA in accordance with subsection (1)(M);

B. Shut-off segment valve spacing. A pipeline subject to paragraph (12)(X)1. must have RMVs or alternative equivalent technology on the upstream and downstream side of the pipeline segment. The distance between RMVs or alternative equivalent technologies must not exceed –

- (I) Eight (8) miles for any Class 4 location;
- (II) Fifteen (15) miles for any Class 3 location; or
- (III) Twenty (20) miles for all other locations;

C. Laterals. Laterals extending from shut-off segments that contribute less than five percent (5%) of the total shut-off segment volume may have RMVs or alternative equivalent technologies that meet the actuation requirements of this section at locations other than mainline receipt/delivery points, as long as all of the laterals contributing gas volumes to the shut-off segment do not contribute more than five percent (5%) of the total shut-off segment gas volume based upon maximum flow volume at the operating pressure. For laterals that are twelve inches (12") in diameter or less, a check valve that allows gas to flow freely in one (1) direction and contains a mechanism to automatically prevent flow in the other direction may be used as an alternative equivalent technology where it is positioned to stop flow into the shut-off segment. Such check valves that are used as an

alternative equivalent technology in accordance with this paragraph are not subject to subsection (12)(Z), but they must be inspected, operated, and remediated in accordance with subsection (13)(U), including for closure and leakage to ensure operational reliability. An operator using such a check valve as an alternative equivalent technology must notify PHMSA in accordance with subsections (1)(M) and (4)(U), and develop and implement maintenance procedures for such equipment that meet subsection (13)(U); and

D. Crossovers. An operator may use a manual valve as an alternative equivalent technology in lieu of an RMV for a crossover connection if, during normal operations, the valve is closed to prevent the flow of gas by the use of a locking device or other means designed to prevent the opening of the valve by persons other than those authorized by the operator. The operator must develop and implement operating procedures and document that the valve has been closed and locked in accordance with the operator's lock-out and tag-out procedures to prevent the flow of gas. An operator using such a manual valve as an alternative equivalent technology must notify PHMSA in accordance with subsections (1)(M) and (4)(U).

(Y) Notification of Potential Rupture. (192.635)

1. As used in this rule, a "notification of potential rupture" refers to the notification of, or observation by, an operator (e.g., by or to its controller(s) in a control room, field personnel, nearby pipeline or utility personnel, the public, local responders, or public authorities) of one (1) or more of the below indicia of a potential unintentional or uncontrolled release of a large volume of gas from a pipeline:

A. An unanticipated or unexplained pressure loss outside of the pipeline's normal operating pressures, as defined in the operator's written procedures. The operator must establish in its written procedures that an unanticipated or unplanned pressure loss is outside of the pipeline's normal operating pressures when there is a pressure loss greater than ten percent (10%) occurring within a time interval of fifteen (15) minutes or less, unless the operator has documented in its written procedures the operational need for a greater pressure-change threshold due to pipeline flow dynamics (including changes in operating pressure, flow rate, or volume), that are caused by fluctuations in gas demand, gas receipts, or gas deliveries; or

B. An unanticipated or unexplained flow rate change, pressure change, equipment function, or other pipeline instrumentation indication at the upstream or downstream station that may be representative of an event meeting subparagraph (12)(Y)1.A.; or

C. Any unanticipated or unexplained rapid release of a large volume of gas, a fire, or an explosion in the immediate vicinity of the pipeline.

2. A notification of potential rupture occurs when an operator first receives notice of or observes an event specified in paragraph (12)(Y)1.

**3. This subsection does not apply to any gas gathering line.**

(13) Maintenance.

(G) Transmission Lines – General Requirements for Repair Procedures. (192.711)

1. Temporary repairs. Each operator must take immediate temporary measures to protect the public whenever –

A. A leak, imperfection, or damage that impairs its serviceability is found in a segment of steel transmission line operating at or above forty percent (40%) of the SMYS; and

B. It is not feasible to make a permanent repair at the time of discovery.

2. Permanent repairs. An operator must make permanent repairs on its pipeline system according to the following:

A. Non-integrity management repairs for gathering lines. For gathering lines subject to this subsection in accordance with *[subsection] paragraph (1)(E)2.*, an operator must make permanent repairs as soon as feasible;

B. Non-integrity management repairs for transmission lines. Except for gathering lines exempted from this subsection in accordance with *[subsection] paragraph (1)(E)2.*, after May 24, 2023, whenever an operator discovers any condition that could adversely affect the safe operation of a pipeline segment not covered by an integrity management program under section (16) – Pipeline Integrity Management for Transmission Lines (Subpart O), it must correct the condition as prescribed in subsection (13)(GG); and

C. Integrity management repairs. When an operator discovers a condition on a pipeline covered under section (16) – Pipeline Integrity Management for Transmission Lines (Subpart O), the operator must remediate the condition as prescribed by 49 CFR 192.933(d) (this federal regulation is incorporated by reference and adopted in section (16)).

3. Welded patch. Except as provided in subparagraph (13)(J)2.C. [(192.717[b][3])], no operator may use a welded patch as a means of repair.

(I) Transmission Lines – Permanent Field Repair of Welds. (192.715) Each weld that is unacceptable under paragraph (5)(I)3. [(192.241[c])] must be repaired as follows:

1. If it is feasible to take the segment of transmission line out of service, the weld must be repaired in accordance with the applicable requirements of subsection (5)(K) [(192.245)];

2. A weld may be repaired in accordance with subsection (5)(K) [(192.245)] while the segment of transmission line is in service if –

A. The weld is not leaking;

B. The pressure in the segment is reduced so that it does not produce a stress that is more than twenty percent (20%) of the SMYS of the pipe; and

C. Grinding of the defective area can be limited so that at least one-eighth inch (1/8") (3.2 millimeters) thickness in the pipe weld remains; and

3. A defective weld which cannot be repaired in accordance with paragraph (13)(I)1. or 2. must be repaired by installing a full encirclement welded split sleeve of appropriate design.

(K) Transmission Lines – Testing of Repairs. (192.719)

1. Testing of replacement pipe. If a segment of transmission line is repaired by cutting out the damaged portion of the pipe as a cylinder, the replacement pipe must be tested to the pressure required for a new line installed in the same location. This test may be made on the pipe before it is installed.

2. Testing of repairs made by welding. Each repair made by welding in accordance with subsections (13)(H), (I), and (J) [(192.713, 192.715, and 192.717)] must be examined in accordance with subsection (5)(I). [(192.241)]

(L) Distribution Systems – Patrolling. (192.721)

1. The frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage and the consequent hazards to public safety.

2. Mains in places or on structures where anticipated physical movement or external loading could cause failure or leakage must be patrolled –

A. In business districts, at intervals not exceeding four and one-half (4 1/2) months, but at least four (4) times each calendar year; and

B. Outside business districts, at intervals not exceeding seven and one-half (7 1/2) months, but at least twice each calendar year.

3. Feeder lines shall be patrolled at intervals not exceeding fifteen (15) months but at least once each calendar year.

(N) Test Requirements for Reinstating Service Lines and Fuel Lines. (192.725)

1. Except as provided in paragraphs (13)(N)2. and 4., each disconnected service line must be tested in the same manner as a new service line and the associated fuel line must meet the requirements of subsection (12)(S) before being reinstated.

2. Before reconnecting, each service line temporarily disconnected from the transmission line or main for any reason must be tested from the point of disconnection to the service line valve in the same manner as a new service line. However, if provisions are made to maintain continuous service, such as by installation of a bypass, any part of the original service line used to maintain continuous service need not be tested. If continuous service is not maintained, the requirements in subsection (12)(S) must be met for the associated fuel line.

3. Except for system outages, each fuel line to which service has been discontinued shall have service resumed in accordance with subsection (12)(S). Each fuel line restored after a system outage shall have service resumed in accordance with subparagraph (12)(S)1.A. and the procedures required under subparagraph (12)(J)1.I. [(192.615[a][9])]

4. Each service line temporarily disconnected from the transmission line or main due to third party damage must be tested from the point of disconnection to the main in the same manner as a new service line, or it may be surveyed from the point of disconnection to the main using a leak detection instrument.

(O) Abandonment or Deactivation of Facilities. (192.727)

1. Each operator shall perform abandonment or deactivation of pipelines in accordance with the requirements of this subsection.

2. Each pipeline abandoned in place must be disconnected from all sources and supplies of gas, purged of gas, and sealed at the ends. However, the pipeline need not be purged when the volume of gas is so small that there is no potential hazard.

3. Except for service lines, each inactive pipeline that is not being maintained under this rule must be disconnected from all sources and supplies of gas, purged of gas, and sealed at the ends. However, the pipeline need not be purged when the volume of gas is so small that there is no potential hazard.

4. Whenever service to a customer is discontinued, one (1) of the following must be complied with:

A. The valve that is closed to prevent the flow of gas to the customer must be provided with a locking device or other means designed to prevent the opening of the valve by persons other than those authorized by the operator;

B. A mechanical device or fitting that will prevent the flow of gas must be installed in the service line or in the meter assembly; or

C. The customer's piping must be physically disconnected from the gas supply and the open pipe ends sealed.

5. If air is used for purging, the operator shall ensure that a combustible mixture is not present after purging.

6. Each abandoned vault must be filled with a suitable compacted material.

7. For each abandoned pipeline facility that crosses over, under, or through a commercially navigable waterway, the last operator of that facility must file a report upon abandonment of that facility. The addresses (mail and email) and phone numbers given in this paragraph are from 49 CFR 192.727(g) as published on October 1, 2009. Please consult the current edition of 49 CFR part 192 for any updates to these

addresses and phone numbers.

A. The preferred method to submit data on pipeline facilities abandoned after October 10, 2000, is to the National Pipeline Mapping System (NPMS) in accordance with the NPMS "Standards for Pipeline and Liquefied Natural Gas Operator Submissions." To obtain a copy of the NPMS Standards, please refer to the NPMS homepage at [www.npms.phmsa.dot.gov](http://www.npms.phmsa.dot.gov) [or contact the NPMS National Repository at (703) 317-3073]. A digital data format is preferred, but hard copy submissions are acceptable if they comply with the NPMS Standards. In addition to the NPMS-required attributes, operators must submit the date of abandonment, diameter, method of abandonment, and certification that, to the best of the operator's knowledge, all of the reasonably available information requested was provided and, to the best of the operator's knowledge, the abandonment was completed in accordance with applicable laws. Refer to the NPMS Standards for details in preparing your data for submission. The NPMS Standards also include details of how to submit data. Alternatively, operators may submit reports by mail, fax, or email to the Office of Pipeline Safety, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Information Resources Manager, PHP-10, 1200 New Jersey Avenue SE, Washington, DC 20590-0001; fax (202) 366-4566; email [[InformationResourcesManager@dot.gov](mailto:InformationResourcesManager@phmsa.dot.gov)] [[InformationResourcesManager@dot.gov](mailto:InformationResourcesManager@dot.gov)]. The information in the report must contain all reasonably available information related to the facility, including information in the possession of a third party. The report must contain the location, size, date, method of abandonment, and a certification that the facility has been abandoned in accordance with all applicable laws.

B. (Reserved)

(P) Compressor Stations – Inspection and Testing of Relief Devices. (192.731)

1. Except for rupture discs, each pressure relieving device in a compressor station must be inspected and tested in accordance with subsections (13)(R) and (T) [(192.739 and 192.743)], and must be operated periodically to determine that it opens at the correct set pressure.

2. Any defective or inadequate equipment found must be promptly repaired or replaced.

3. Each remote control shutdown device must be inspected and tested at intervals not exceeding fifteen (15) months but at least once each calendar year to determine that it functions properly.

(Y) Caulked Bell and Spigot Joints. (192.753)

1. Each cast iron caulked bell and spigot joint that is subject to pressures of more than twenty-five (25) psi (172 kPa) gauge must be sealed with –

- A. A mechanical leak clamp; or
- B. A material or device which –

(I) Does not reduce the flexibility of the joint;

(II) Permanently bonds, either chemically or mechanically, or both, with the bell and spigot metal surfaces or adjacent pipe metal surfaces; and

(III) Seals and bonds in a manner that meets the strength, environmental, and chemical compatibility requirements of paragraphs (2)(B)1. and 2. and subsection (4)(B). [(192.53[a] and [b] and 192.143)]

2. Each cast iron caulked bell and spigot joint that is subject to pressures of twenty-five (25) psi (172 kPa) gauge or less and is exposed for any reason must be sealed by a means other than caulking.

(Z) Protecting or Replacing Disturbed Cast Iron Pipelines. (192.755) When an operator has knowledge that the support

for a segment of a buried cast iron pipeline is disturbed or that an excavation or erosion is nearby, the operator shall determine if more than half the pipe diameter lies within the area of affected soil. For the purposes of this subsection, "area of affected soil" refers to the area above a line drawn from the bottom of the excavation or erosion, at the side nearest the main, at a forty-five degree ( $45^\circ$ ) angle from the horizontal (a lesser angle should be used for sandy or loose soils, or a greater angle may be used for certain consolidated soils if the angle can be substantiated by the operator). If more than half the pipe diameter lies within the area of affected soil, the following measures/precautions must be taken –

1. That segment of the pipeline must be protected, as necessary, against damage during the disturbance by –

A. Vibrations from heavy construction equipment, trains, trucks, buses, or blasting;

B. Impact forces by vehicles;

C. Earth movement;

D. Water leaks or sewer failures that could remove or undermine pipe support;

E. Apparent future excavations near the pipeline; or

F. Other foreseeable outside forces which may subject that segment of the pipeline to bending stress;

2. If eight inches (8") or less in nominal diameter, then as soon as feasible, this segment of cast iron pipeline, which shall include a minimum of ten feet (10') beyond the area of affected soil, must be replaced, except as noted in paragraph (13)(Z)4.;

3. If greater than eight inches (8") in nominal diameter, then as soon as feasible, appropriate steps must be taken to provide permanent protection for the disturbed segment from damage that might result from external loads, including compliance with applicable requirements of subsection (7)(J) [(192.319)] and paragraph (7)(I)1. [(192.317[a])]; and

4. Replacement of cast iron pipelines would not necessarily be required if –

A. The support beneath the pipe is removed for a length less than ten (10) times the nominal pipe diameter not to exceed six feet (6');

B. For parallel excavations, the pipe lies within the area of affected soil for a length less than ten (10) times the nominal pipe diameter not to exceed six feet (6');

C. The excavation is made by the operator in the course of routine maintenance, such as leak repairs to the main or service line installation, where the exposed portion of the main does not exceed six feet (6'), and the backfill supporting the pipe is replaced and compacted by the operator; or

D. Permanent or temporary shoring was adequately installed to protect the cast iron pipeline during excavation and backfilling.

(BB) Pressure Regulating, Limiting, and Overpressure Protection – Individual Service Lines Directly Connected to Regulated Gathering or Transmission Pipelines. (192.740)

1. This subsection applies, except as provided in paragraph (13)(BB)3., to any service line directly connected to a transmission pipeline or regulated gathering pipeline as determined in [subsection] paragraph (1)(E)1. [of this rule (192.8)] that is not operated as part of a distribution system.

2. Each pressure regulating or limiting device, relief device (except rupture discs), automatic shutoff device, and associated equipment must be inspected and tested at least once every three (3) calendar years, not exceeding thirty-nine (39) months, to determine that it is –

A. In good mechanical condition;

B. Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed;

C. Set to control or relieve at the correct pressure

consistent with the pressure limits of subsection (4)(DD) and to limit the pressure on the inlet of the service regulator to sixty (60) psi (414 kPa) gauge or less in case the upstream regulator fails to function properly; and

D. Properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.

3. This subsection does not apply to equipment installed on –

A. A service line that only serves engines that power irrigation pumps; or

B. A service line directly connected to either a production or gathering pipeline other than a regulated gathering line as determined in [subsection] paragraph (1)(E)1. [of this rule (192.8)]

(GG) Transmission Lines – Repair Criteria for Transmission Pipelines. (192.714)

1. Applicability. This section applies to transmission pipelines not subject to the repair criteria in section (16) – Pipeline Integrity Management for Transmission Lines (Subpart O). Pipeline segments that are located in high consequence areas, as defined in 49 CFR 192.903 (incorporated by reference in section (16)), must comply with the applicable actions specified by the integrity management requirements in section (16) – Pipeline Integrity Management for Transmission Lines (Subpart O).

2. General. Each operator must, in repairing its pipeline systems, ensure that the repairs are made in a safe manner and are made to prevent damage to persons, property, and the environment. A pipeline segment's operating pressure must be less than the predicted failure pressure determined in accordance with subsection (13)(EE) during repair operations. Repairs performed in accordance with this subsection must use pipe and material properties that are documented in traceable, verifiable, and complete records. If documented data required for any analysis, including predicted failure pressure for determining MAOP, is not available, an operator must obtain the undocumented data through subsection (12) (E). Until documented material properties are available, the operator must use the conservative assumptions in either subparagraph (13)(EE)5.B. or, if appropriate following a pressure test, in subparagraph (13)(EE)4.C.

3. Schedule for evaluation and remediation. An operator must remediate conditions according to a schedule that prioritizes the conditions for evaluation and remediation. Unless paragraph (13)(GG)4. provides a special requirement for remediating certain conditions, an operator must calculate the predicted failure pressure of anomalies or defects and follow the schedule in ASME/ANSI/ B31.8S (incorporated by reference in 49 CFR 192.7 and adopted in (1)(D)), [section] Section 7, Figure [4]7.2.1-1. If an operator cannot meet the schedule for any condition, the operator must document the reasons why it cannot meet the schedule and how the changed schedule will not jeopardize public safety. Each condition that meets any of the repair criteria in paragraph (13)(GG)4. in a steel transmission pipeline must be –

A. Removed by cutting out and replacing a cylindrical piece of pipe that will permanently restore the pipeline's MAOP based on the use of subsection (3)(C) and the design factors for the class location in which it is located; or

B. Repaired by a method, shown by technically proven engineering tests and analyses, that will permanently restore the pipeline's MAOP based upon the determined predicted failure pressure times the design factor for the class location in which it is located.

4. Remediation of certain conditions. For transmission pipelines not located in high consequence areas, an operator

must remediate a listed condition according to the following criteria:

A. Immediate repair conditions. An operator's evaluation and remediation schedule for immediate repair conditions must follow [s]Section 7 of ASME/ANSI/B31.8S-2004 (incorporated by reference in 49 CFR 192.7 and adopted in (1)(D)). An operator must repair the following conditions immediately upon discovery:

(I) Metal loss anomalies where a calculation of the remaining strength of the pipe at the location of the anomaly shows a predicted failure pressure, determined in accordance with paragraph (13)(EE)2., of less than or equal to 1.1 times the MAOP;

(II) A dent located between the 8 o'clock and 4 o'clock positions (upper 2/3 of the pipe) that has metal loss, cracking, or a stress riser, unless an engineering analysis performed in accordance with paragraph (13)(EE)3. demonstrates critical strain levels are not exceeded;

(III) Metal loss greater than eighty percent (80%) of nominal wall regardless of dimensions;

(IV) Metal loss preferentially affecting a detected longitudinal seam, if that seam was formed by direct current, low-frequency [or high-frequency] electric resistance welding, electric flash welding, or has a longitudinal joint factor less than 1.0, and the predicted failure pressure determined in accordance with paragraph (13)(EE)4. is less than 1.25 times the MAOP;

(V) A crack or crack-like anomaly meeting any of the following criteria:

(a) Crack depth plus any metal loss is greater than fifty percent (50%) of pipe wall thickness; or

(b) Crack depth plus any metal loss is greater than the inspection tool's maximum measurable depth; [or

(c) The crack or crack-like anomaly has a predicted failure pressure, determined in accordance with (13)(EE)4., that is less than 1.25 times the MAOP;]

(VI) An indication or anomaly that, in the judgment of the person designated by the operator to evaluate the assessment results, requires immediate action[.];

B. Two- (2-) year conditions. An operator must repair the following conditions within two (2) years of discovery:

(I) A smooth dent located between the 8 o'clock and 4 o'clock positions (upper 2/3 of the pipe) with a depth greater than six percent (6%) of the pipeline diameter (greater than 0.50 inches in depth for a pipeline diameter less than Nominal Pipe Size (NPS) 12), unless an engineering analysis performed in accordance with paragraph (13)(EE)3. demonstrates critical strain levels are not exceeded;

(II) A dent with a depth greater than two percent (2%) of the pipeline diameter (0.250 inches in depth for a pipeline diameter less than NPS 12) that affects pipe curvature at a girth weld or at a longitudinal or helical (spiral) seam weld, unless an engineering analysis performed in accordance with paragraph (13)(EE)3. demonstrates critical strain levels are not exceeded;

(III) A dent located between the 4 o'clock and 8 o'clock positions (lower 1/3 of the pipe) that has metal loss, cracking, or a stress riser, unless an engineering analysis performed in accordance with paragraph (13)(EE)3. demonstrates critical strain levels are not exceeded;

(IV) For metal loss anomalies, a calculation of the remaining strength of the pipe shows a predicted failure pressure, determined in accordance with paragraph (13)(EE)2. at the location of the anomaly, of less than 1.39 times the MAOP for Class 2 locations, or less than 1.50 times the MAOP for Class 3 and 4 locations. For metal loss anomalies in Class 1 locations

with a predicted failure pressure greater than 1.1 times MAOP, an operator must follow the remediation schedule specified in ASME/ANSI/B31.8S-2004 (incorporated by reference in 49 CFR 192.7 and adopted in (1)(D)), *s*Section 7, Figure 4, as specified in paragraph (13)(GG)3.;

(V) Metal loss that is located at a crossing of another pipeline, is in an area with widespread circumferential corrosion, or could affect a girth weld, and that has a predicted failure pressure, determined in accordance with paragraph (13)(EE)2., less than 1.39 times the MAOP for Class 1 locations or where Class 2 locations contain Class 1 pipe that has been uprated in accordance with subsection (12)(G), or less than 1.50 times the MAOP for all other Class 2 locations and all Class 3 and 4 locations;

(VI) Metal loss preferentially affecting a detected longitudinal seam, if that seam was formed by direct current, low-frequency or high-frequency electric resistance welding, electric flash welding, or that has a longitudinal joint factor less than 1.0, and where the predicted failure pressure determined in accordance with paragraph (13)(EE)4. is less than 1.39 times the MAOP for Class 1 locations or where Class 2 locations contain Class 1 pipe that has been uprated in accordance with subsection (12)(G), or less than 1.50 times the MAOP for all other Class 2 locations and all Class 3 and 4 locations; and

(VII) A crack or crack-like anomaly that has a predicted failure pressure, determined in accordance with paragraph (13)(EE)4., that is less than 1.39 times the MAOP for Class 1 locations or where Class 2 locations contain Class 1 pipe that has been uprated in accordance with subsection (12)(G), or less than 1.50 times the MAOP for all other Class 2 locations and all Class 3 and 4 locations~~s~~;

C. Monitored conditions. An operator must record and monitor the following conditions during subsequent risk assessments and integrity assessments for any change that may require remediation:

(I) A dent that is located between the 4 o'clock and 8 o'clock positions (bottom 1/3 of the pipe) with a depth greater than six percent (6%) of the pipeline diameter (greater than 0.50 inches in depth for a pipeline diameter less than NPS 12), and where an engineering analysis, performed in accordance with paragraph (13)(EE)3., demonstrates critical strain levels are not exceeded;

(II) A dent located between the 8 o'clock and 4 o'clock positions (upper 2/3 of the pipe) with a depth greater than six percent (6%) of the pipeline diameter (greater than 0.50 inches in depth for a pipeline diameter less than NPS 12), and where an engineering analysis performed in accordance with paragraph (13)(EE)3. determines that critical strain levels are not exceeded;

(III) A dent with a depth greater than two percent (2%) of the pipeline diameter (0.250 inches in depth for a pipeline diameter less than NPS 12) that affects pipe curvature at a girth weld or longitudinal or helical (spiral) seam weld, and where an engineering analysis of the dent and girth or seam weld, performed in accordance with paragraph (13)(EE)3., demonstrates critical strain levels are not exceeded. These analyses must consider weld mechanical properties;

(IV) A dent that has metal loss, cracking, or a stress riser, and where an engineering analysis performed in accordance with paragraph (13)(EE)3. demonstrates critical strain levels are not exceeded;

(V) Metal loss preferentially affecting a detected longitudinal seam, if that seam was formed by direct current, low-frequency or high-frequency electric resistance welding, electric flash welding, or that has a longitudinal joint factor less than 1.0, and where the predicted failure pressure,

determined in accordance with paragraph (13)(EE)4., is greater than or equal to 1.39 times the MAOP for Class 1 locations or where Class 2 locations contain Class 1 pipe that has been uprated in accordance with subsection (12)(G), or is greater than or equal to 1.50 times the MAOP for all other Class 2 locations and all Class 3 and 4 locations; and

(VI) A crack or crack-like anomaly for which the predicted failure pressure, determined in accordance with paragraph (13)(EE)4., is greater than or equal to 1.39 times the MAOP for Class 1 locations or where Class 2 locations contain Class 1 pipe that has been uprated in accordance with subsection (12)(G), or is greater than or equal to 1.50 times the MAOP for all other Class 2 locations and all Class 3 and 4 locations.

#### 5. Temporary pressure reduction.

A. Immediately upon discovery and until an operator remediates the condition specified in subparagraph (13)(GG)4.A., or upon a determination by an operator that it is unable to respond within the time limits for the conditions specified in subparagraph (13)(GG)4.B., the operator must reduce the operating pressure of the affected pipeline to any one (I) of the following based on safety considerations for the public and operating personnel:

(I) A level not exceeding eighty percent (80%) of the operating pressure at the time the condition was discovered;

(II) A level not exceeding the predicted failure pressure times the design factor for the class location in which the affected pipeline is located; or

(III) A level not exceeding the predicted failure pressure divided by 1.1.

B. An operator must notify PHMSA in accordance with subsection (1)(M) if it cannot meet the schedule for evaluation and remediation required under paragraph (13)(GG)3. or paragraph (13)(GG)4. and cannot provide safety through a temporary reduction in operating pressure or other action. Notification to PHMSA does not alleviate an operator from the evaluation, remediation, or pressure reduction requirements in this subsection.

C. When a pressure reduction, in accordance with paragraph (13)(GG)5., exceeds three hundred sixty-five (365) days, an operator must notify PHMSA in accordance with subsection (1)(M) and explain the reasons for the remediation delay. This notice must include a technical justification that the continued pressure reduction will not jeopardize the integrity of the pipeline.

D. An operator must document and keep records of the calculations and decisions used to determine the reduced operating pressure and the implementation of the actual reduced operating pressure for a period of five (5) years after the pipeline has been repaired.

6. Other conditions. Unless another time frame is specified in paragraph (13)(GG)4., an operator must take appropriate remedial action to correct any condition that could adversely affect the safe operation of a pipeline system in accordance with the criteria, schedules, and methods defined in the operator's operating and maintenance procedures.

7. In situ direct examination of crack defects. Whenever an operator finds conditions that require the pipeline to be repaired, in accordance with this subsection, an operator must perform a direct examination of known locations of cracks or crack-like defects using technology that has been validated to detect tight cracks (equal to or less than 0.008 inches crack opening), such as inverse wave field extrapolation (IWEX), phased array ultrasonic testing (PAUT), ultrasonic testing (UT), or equivalent technology. "In situ" examination tools and procedures for crack assessments (length, depth, and

volumetric) must have performance and evaluation standards, including pipe or weld surface cleanliness standards for the inspection, confirmed by subject-matter experts qualified by knowledge, training, and experience in direct examination inspection for accuracy of the type of defects and pipe material being evaluated. The procedures must account for inaccuracies in evaluations and fracture mechanics models for failure pressure determinations.

8. Determining predicted failure pressures and critical strain levels. An operator must perform all determinations of predicted failure pressures and critical strain levels required by this subsection in accordance with subsection (13)(EE).

#### (14) Gas Leaks.

(C) Leak Classifications. The leak classifications in this subsection apply to pipelines, and do not apply to fuel lines. The definitions for "pipeline," "fuel line," "reading," "sustained reading," "building," "tunnel," and "vault or manhole" are included in subsection (1)(B). The definition for "reading" is the highest sustained reading when testing in a bar hole or opening without induced ventilation. Thus, the leak classification examples involving a gas reading do not apply to outside pipelines located aboveground. Even though the leak classifications do not apply to fuel lines, an operator must respond immediately to each notice of an inside leak or odor as required in paragraphs (12)(J)1., (14)(B)1., and (14)(B)2. In addition, the requirements in paragraph (12)(S)3. apply to fuel lines that are determined to be unsafe.

1. Class 1 leak is a gas leak which, due to its location and/or magnitude, constitutes an immediate hazard to a building and/or the general public. A Class 1 leak requires immediate corrective action. Examples of Class 1 leaks are:<sup>[J]</sup> a gas fire, flash, or explosion; broken gas facilities such as contractor damage, main failures, or blowing gas in a populated area; an indication of gas present in a building emanating from operator-owned facilities; a gas reading equal to or above the lower explosive limit in a tunnel, sanitary sewer, or confined area; gas entering a building or in imminent danger of doing so; and any leak which, in the judgment of the supervisor at the scene, is regarded as immediately hazardous to the public and/or property. When venting at or near the leak is the immediate corrective action taken for Class 1 leaks where gas is detected entering a building, the leak may be reclassified to a Class 2 leak if the gas is no longer entering the building, nor is in imminent danger of doing so. However, the leak shall be rechecked daily and repaired within fifteen (15) days. Leaks of this nature, if not repaired within five (5) days, may need to be reported as a safety-related condition, as required in 20 CSR 4240-40.020(12) and (13). [(191.23 and 191.25)]

2. Class 2 leak is a leak that does not constitute an immediate hazard to a building or to the general public, but is of a nature requiring action as soon as possible. The leak of this classification must be rechecked every fifteen (15) days, until repaired, to determine that no immediate hazard exists. A Class 2 leak may be properly reclassified to a lower leak classification within fifteen (15) days after the initial investigation. Class 2 leaks due to readings in sanitary sewers, tunnels, or confined areas must be repaired or properly reclassified within fifteen (15) days after the initial investigation. All other Class 2 leaks must be eliminated within forty-five (45) days after the initial investigation, unless it is definitely included and scheduled in a rehabilitation or replacement program to be completed within a period of one (1) year, in which case the leak must be rechecked every fifteen (15) days to determine that no immediate hazard exists. Examples of Class 2 leaks are:<sup>[J]</sup> a leak from a transmission

line discernible twenty-five feet (25') or more from the line and within one hundred feet (100') of a building; any reading outside a building at the foundation or within five feet (5') of the foundation; any reading greater than fifty percent (50%) gas-in-air located five to fifteen feet (5'-15') from a building; any reading below the lower explosive limit in a tunnel, sanitary sewer, or confined area; any reading equal to or above the lower explosive limit in a vault, catch basin, or manhole other than a sanitary sewer; or any leak, other than a Class 1 leak, which in the judgment of the supervisor at the scene, is regarded as requiring Class 2 leak priority.

3. Class 3 leak is a leak that does not constitute a hazard to property or to the general public but is of a nature requiring routine action. These leaks must be repaired within five (5) years and be rechecked twice per calendar year, not to exceed six and one-half (6 1/2) months, until repaired or the facility is replaced. Examples of Class 3 leaks are:<sup>[J]</sup> any reading of fifty percent (50%) or less gas-in-air located between five and fifteen feet (5'-15') from a building; any reading located between fifteen and fifty feet (15'-50') from a building, except those defined in Class 4; a reading less than the lower explosive limit in a vault, catch basin, or manhole other than a sanitary sewer; or any leak, other than a Class 1 or Class 2 which, in the judgment of the supervisor at the scene, is regarded as requiring Class 3 priority.

4. Class 4 leak is a confined or localized leak which is completely nonhazardous. No further action is necessary.

#### (15) Replacement Programs.

##### (D) Replacement Program – Cast Iron.

1. Operators who have cast iron transmission lines, feeder lines, or mains shall develop a replacement program to be submitted with an explanation to the commission by May 1, 1990, for commission review and approval. This systematic replacement program shall be prioritized to identify and eliminate pipelines in those areas that present the greatest potential for hazard in an expedited manner. These high priority replacement areas would include:<sup>[J]</sup> but not be limited to:<sup>[J]</sup>

A. High-pressure cast iron pipelines located beneath pavement which is continuous to building walls;

B. High-pressure cast iron pipelines located near concentrations of the general public such as Class 4 locations, business districts, and schools;

C. Small diameter cast iron pipelines;

D. Areas where extensive excavation, blasting, or construction activities have occurred in close proximity to cast iron pipelines;

E. Sections of cast iron pipeline that have had sections replaced as a result of requirements in subsection (13)(Z) [(192.755)];

F. Sections of cast iron pipeline that lie in areas of planned future development projects, such as city, county, or state highway construction/relocations, urban renewal, etc.; and

G. Sections of cast iron pipeline that exhibit a history of leakage or graphitization.

2. A long-term, organized replacement program and schedule shall also be established for cast iron pipelines not identified by the operator as being high priority.

3. Operators who have cast iron service lines shall replace them by December 31, 1991.

#### (16) Pipeline Integrity Management for Transmission Lines.

(A) As set forth in the *Code of Federal Regulations* (CFR) dated October 1, [2021] 2023, and the subsequent amendments 192-

[130]135 (published in *Federal Register* on [April 8, 2022] **April 29, 2024**, page [87] 89 FR [20940] 33264), and 192-[132]138 (published in *Federal Register* on [August 24, 2022] **January 15, 2025**, page [87] 90 FR [52224] 3713), and 192-133 (published in the *Federal Register* on April 24, 2023, page 88 FR 24708). The federal regulations in 49 CFR part 192, subpart O, and in 49 CFR part 192, appendices E and F, are incorporated by reference and made a part of this rule. This rule does not incorporate any subsequent amendments to subpart O and appendices E and F to 49 CFR part 192.

(B) The *Code of Federal Regulations* and the *Federal Register* are published by the Office of the Federal Register, National Archives and Records Administration, 8601 Adelphi Road, College Park, MD 20740-6001. The October 1, [2021] 2023, version of 49 CFR part 192 is available at [<https://www.govinfo.gov/#citation>] <https://www.govinfo.gov/content/pkg/CFR-2023-title49-vol3/pdf/CFR-2023-title49-vol3-part192.pdf>. The *Federal Register* publication on page [87] 89 FR [20940] 33264 is available at [<https://www.govinfo.gov/content/pkg/FR-2022-04-08/pdf/2022-07133.pdf>] <https://www.govinfo.gov/content/pkg/FR-2024-04-29/pdf/2024-08624.pdf>. The *Federal Register* publication on page [87] 90 FR [52224] 3713 is available at [<https://www.govinfo.gov/content/pkg/FR-2022-08-24/pdf/2022-17031.pdf>. The *Federal Register* publication on page 88 FR 24708 is available at <https://www.govinfo.gov/content/pkg/FR-2023-04-24/pdf/2023-08548.pdf>] <https://www.govinfo.gov/content/pkg/FR-2025-01-15/pdf/2025-00073.pdf>.

(17) Gas Distribution Pipeline Integrity Management (IM).

(B) What Do the Regulations in this Section Cover? (192.1003)

1. General. Unless exempted in paragraph (17)(B)2., this section prescribes minimum requirements for an IM program for any gas distribution pipeline covered under this rule, including liquefied petroleum gas systems. A gas distribution operator must follow the requirements in section (17).

2. Exceptions. Section (17) does not apply to –

A. Individual service lines directly connected to a production line or a gathering line other than a regulated onshore gathering line as determined in [subsection paragraph (1)(E)1. of this rule (192.8)];

B. Individual service lines directly connected to either a transmission or regulated gathering pipeline and maintained in accordance with paragraphs (13)(BB)1. and 2. of this rule [(192.740(a) and (b))]; and

C. Master meter systems.

**Appendix B to 20 CSR 4240-40.030**

**Appendix B – Qualification of Pipe and Components**

I. List of Specifications.

A. Listed Pipe Specifications.

ANSI/API Specification 5L – Steel pipe, “[*API Specification for* Line Pipe” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM A53/A53M – Steel pipe, “Standard Specification for Pipe, Steel Black and Hot-Dipped, Zinc-Coated, Welded and Seamless” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM A106/A106M – Steel pipe, “Standard Specification for Seamless Carbon Steel Pipe for High Temperature Service” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM A333/A333M – Steel pipe, “Standard Specification for Seamless and Welded Steel Pipe for Low Temperature Service” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM A381 – Steel pipe, “Standard Specification for Metal-Arc-Welded Steel Pipe for Use with High-Pressure Transmission Systems” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM A671/A671M – Steel pipe, “Standard Specification for Electric-Fusion-Welded Pipe for Atmospheric and Lower Temperatures” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM A672/A672M – Steel pipe, “Standard Specification for Electric-Fusion-Welded Steel Pipe for High-Pressure Service at Moderate Temperatures” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM A691/A691M – Steel pipe, “Standard Specification for Carbon and Alloy Steel Pipe, Electric-Fusion-Welded for High-Pressure Service at High Temperatures” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM D2513 – “Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM F2817-10 – “Standard Specification for Poly (Vinyl Chloride) (PVC) Gas Pressure Pipe and Fittings for Maintenance or Repair” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

B. Other Listed Specifications for Components.

ASME B16.40-2008 – “Manually Operated Thermoplastic Gas Shutoffs and Valves in Gas Distribution Systems” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM D2513 – “Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM F1055-98 (2006) – “Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM F1924-12 – “Standard Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM F1948-12 – “Standard Specification for Metallic Mechanical Fittings for Use on Outside Diameter Controlled Thermoplastic Gas Distribution Pipe and Tubing” (incorporated by reference, in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM F1973-13 – “Standard Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA 11) and Polyamide 12 (PA 12) Fuel Gas Distribution Systems” (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

ASTM F2817-10 – “Standard Specification for Poly (Vinyl

Chloride) (PVC) Gas Pressure Pipe and Fittings for Maintenance or Repair" (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)).

## II. Steel pipe of unknown or unlisted specification.

A. Bending properties. For pipe two inches (2") (51 millimeters) or less in diameter, a length of pipe must be cold bent through at least ninety degrees (90°) around a cylindrical mandrel that has a diameter twelve (12) times the diameter of the pipe, without developing cracks at any portion and without opening the longitudinal weld. For pipe more than two inches (2") (51 millimeters) in diameter, the pipe must meet the requirements of the flattening tests set forth in ASTM A53/A53M (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)), except that the number of tests must be at least equal to the minimum required in paragraph II.D. of this appendix to determine yield strength.

B. Weldability. A girth weld must be made in the pipe by a welder who is qualified under section (5) of 20 CSR 4240-40.030. The weld must be made under the most severe conditions under which welding will be allowed in the field and by means of the same procedure that will be used in the field. On pipe more than four inches (4") (102 millimeters) in diameter, at least one (1) test weld must be made for each one hundred (100) lengths of pipe. On pipe four inches (4") (102 millimeters) or less in diameter, at least one (1) test weld must be made for each four hundred (400) lengths of pipe. The weld must be tested in accordance with API Standard 1104 (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)). If the requirements of API Standard 1104 cannot be met, weldability may be established by making chemical tests for carbon and manganese, and proceeding in accordance with section IX of the *ASME Boiler and Pressure Vessel Code* (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)). The same number of chemical tests must be made as are required for testing a girth weld.

C. Inspection. The pipe must be clean enough to permit adequate inspection. It must be visually inspected to ensure that it is reasonably round and straight and there are no defects which might impair the strength or tightness of the pipe.

D. Tensile properties. If the tensile properties of the pipe are not known, the minimum yield strength may be taken as twenty-four thousand (24,000) psi (165 MPa) or less, or the tensile properties may be established by performing tensile tests as set forth in API Specification 5L (incorporated by reference in 49 CFR 192.7 and adopted in subsection (1)(D)). All test specimens shall be selected at random and the following number of tests must be performed:

### Number of Tensile Tests – All Sizes

|                    |  |
|--------------------|--|
| 10 lengths or less | 1 set of tests for each length.                                    |
| 11 to 100 lengths  | 1 set of tests for each 5 lengths,<br>but not less than 10 tests.  |
| Over 100 lengths   | 1 set of tests for each 10 lengths,<br>but not less than 20 tests. |

If the yield-tensile ratio, based on the properties determined by those tests, exceeds 0.85, the pipe may be used only as provided in paragraph (2)(C)3. of 20 CSR 4240-40.030. [(192.55(c)])]

III. Steel pipe manufactured before November 12, 1970, to earlier editions of listed specifications. Steel pipe manufactured before November 12, 1970, in accordance with a specification of which a later edition is listed in section I. of this appendix, is qualified for use under this rule if the following requirements

are met:

A. Inspection. The pipe must be clean enough to permit adequate inspection. It must be visually inspected to ensure that it is reasonably round and straight and that there are no defects which might impair the strength or tightness of the pipe; and

B. Similarity of specification requirements. The edition of the listed specification under which the pipe was manufactured must have substantially the same requirements with respect to the following properties as a later edition of that specification listed in section I. of this appendix:

1) Physical (mechanical) properties of pipe, including yield and tensile strength, elongation and yield to tensile ratio, and testing requirements to verify those properties; and

2) Chemical properties of pipe and testing requirements to verify those properties; and

C. Inspection or test of welded pipe. On pipe with welded seams, one (1) of the following requirements must be met:

1) The edition of the listed specification to which the pipe was manufactured must have substantially the same requirements with respect to nondestructive inspection of welded seams and the standards for acceptance or rejection and repair as a later edition of the specification listed in section I. of this appendix; or

2) The pipe must be tested in accordance with section (10) of 20 CSR 4240-40.030 to at least one and one-fourth (1.25) times the maximum allowable operating pressure if it is to be installed in a Class 1 location and to at least one and one-half (1.5) times the maximum allowable operating pressure if it is to be installed in a Class 2, 3, or 4 location. Notwithstanding any shorter time period permitted under section (10) of 20 CSR 4240-40.030, the test pressure must be maintained for at least eight (8) hours.

*AUTHORITY: sections 386.250, 386.310, and 393.140, RSMo 2016. This rule originally filed as 4 CSR 240-40.030. Original rule filed Feb. 23, 1968, effective March 14, 1968. For intervening history, please consult the **Code of State Regulations**. Amended: Filed March 19, 2025.*

*PUBLIC COST: This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.*

*PRIVATE COST: This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.*

*NOTICE TO SUBMIT COMMENTS AND NOTICE OF PUBLIC HEARING: Anyone may file comments in support of or in opposition to this proposed amendment with the Missouri Public Service Commission, Nancy Dippell, Secretary of the Commission, PO Box 360, Jefferson City, MO 65102. To be considered, comments must be received at the commission's offices on or before June 2, 2025, and should include a reference to Commission File No. GX-2025-0249. Comments may also be submitted via a filing using the commission's electronic filing and information system at <http://www.psc.mo.gov/efis.asp>. A public hearing regarding this proposed rule is scheduled for June 6, 2025, at 11 a.m., in Room 310 of the Governor's Office Building, 200 Madison St., Jefferson City, MO. Interested persons may appear at this hearing to submit additional comments and/or testimony in support or in opposition to this proposed amendment, and may be asked to respond to commission questions. Any persons with special needs as addressed by the Americans with Disabilities Act should contact the Missouri Public Service Commission at least ten (10) days prior to the hearing at one (1) of the following numbers:*

Consumer Services Hotline 1 (800) 392-4211 or TDD Hotline 1 (800) 829-7541.

**TITLE 20 – DEPARTMENT OF COMMERCE AND INSURANCE**  
**Division 4240 – Public Service Commission**  
**Chapter 40 – Gas Utilities and Gas Safety Standards**

**PROPOSED AMENDMENT**

**20 CSR 4240-40.080 Drug and Alcohol Testing.** The commission is amending section (1).

*PURPOSE:* This amendment modifies the rule to address amendments of 49 CFR part 40 promulgated between June 2019 and January 2025.

(1) As set forth in the *Code of Federal Regulations* (CFR) dated October 1, [2019] 2023, and the subsequent amendments published on June 21, 2024 (published in *Federal Register* on June 21, 2024, page 89 FR 51981), and November 5, 2024 (published in *Federal Register* on November 5, 2024, page 89 FR 87792), 49 CFR parts 40 and 199 are incorporated by reference and made a part of this rule. This rule does not incorporate any subsequent amendments to 49 CFR parts 40 and 199. The *Code of Federal Regulations* is published by the Office of the Federal Register, National Archives and Records Administration, 8601 Adelphi Road, College Park, MD 20740-6001. The October 1, [2019] 2023, versions of 49 CFR parts 40 and 199 [is]are available at [<https://www.govinfo.gov/#citation>] <https://www.govinfo.gov/content/pkg/CFR-2023-title49-vol1/pdf/CFR-2023-title49-vol1-part40.pdf> and <https://www.govinfo.gov/content/pkg/CFR-2023-title49-vol3/pdf/CFR-2023-title49-vol3-part199.pdf>, respectively. The *Federal Register* publication on page 89 FR 51981 is available at <https://www.govinfo.gov/content/pkg/FR-2024-06-21/pdf/2024-12749.pdf>. The *Federal Register* publication on page 89 FR 87792 is available at <https://www.govinfo.gov/content/pkg/FR-2024-11-05/pdf/2024-25403.pdf>.

*AUTHORITY:* sections 386.250, 386.310, and 393.140, RSMo 2016. This rule originally filed as 4 CSR 240-40.080. Original rule filed Nov. 29, 1989, effective April 2, 1990. For intervening history, please consult the **Code of State Regulations**. Amended: Filed March 19, 2025.

*PUBLIC COST:* This proposed amendment will not cost state agencies or political subdivisions more than five hundred dollars (\$500) in the aggregate.

*PRIVATE COST:* This proposed amendment will not cost private entities more than five hundred dollars (\$500) in the aggregate.

**NOTICE TO SUBMIT COMMENTS AND NOTICE OF PUBLIC HEARING:** Anyone may file comments in support of or in opposition to this proposed amendment with the Missouri Public Service Commission, Nancy Dippell, Secretary of the Commission, PO Box 360, Jefferson City, MO 65102. To be considered, comments must be received at the commission's offices on or before June 2, 2025, and should include a reference to commission File No. GX-2025-0249. Comments may also be submitted via a filing using the commission's electronic filing and information system at <http://www.psc.mo.gov/efis.asp>. A public hearing regarding this proposed amendment is scheduled for June 6, 2025, at 11

a.m., in Room 310 of the Governor's Office Building, 200 Madison St., Jefferson City, MO. Interested persons may appear at this hearing to submit additional comments and/or testimony in support or in opposition to this proposed amendment, and may be asked to respond to commission questions. Any persons with special needs as addressed by the Americans with Disabilities Act should contact the Missouri Public Service Commission at least ten (10) days prior to the hearing at one (1) of the following numbers: Consumer Services Hotline 1 (800) 392-4211 or TDD Hotline 1 (800) 829-7541.

This section will contain the final text of the rules proposed by agencies. The order of rulemaking is required to contain a citation to the legal authority upon which the order or rulemaking is based; reference to the date and page or pages where the notice of proposed rulemaking was published in the *Missouri Register*; an explanation of any change between the text of the rule as contained in the notice of proposed rulemaking and the text of the rule as finally adopted, together with the reason for any such change; and the full text of any section or subsection of the rule as adopted that has been changed from the text contained in the notice of proposed rulemaking. The effective date of the rule shall be not less than thirty (30) days after the date of publication of the revision to the *Code of State Regulations*.

The agency is also required to make a brief summary of the general nature and extent of comments submitted in support of or opposition to the proposed rule and a concise summary of the testimony presented at the hearing, if any, held in connection with the rulemaking, together with a concise summary of the agency's findings with respect to the merits of any such testimony or comments that are opposed in whole or in part to the proposed rule. The ninety-(90-) day period during which an agency shall file its order of rulemaking for publication in the *Missouri Register* begins either: 1) after the hearing on the proposed rulemaking is held; or 2) at the end of the time for submission of comments to the agency. During this period, the agency shall file with the secretary of state the order of rulemaking, either putting the proposed rule into effect, with or without further changes, or withdrawing the proposed rule.

**TITLE 12 – DEPARTMENT OF REVENUE**  
**Division 10 – Director of Revenue**  
**Chapter 41 – General Tax Provisions**

**ORDER OF RULEMAKING**

By the authority vested in the Director of Revenue under section 32.065, RSMo 2016, the director amends a rule as follows:

**12 CSR 10-41.010 Annual Adjusted Rate of Interest is amended.**

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 15, 2025 (50 MoReg 105-108). No changes have been made to the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**TITLE 13 – DEPARTMENT OF SOCIAL SERVICES**  
**Division 35 – Children's Division**  
**Chapter 71 – Rules for Residential Care Facilities for Children**

**ORDER OF RULEMAKING**

By the authority vested in the Department of Social Services,

Children's Division, under sections 207.020 and 660.017, RSMo 2016, and sections 210.493 and 210.1286, RSMo Supp. 2024, the division amends a rule as follows:

**13 CSR 35-71.015 Background Checks for Personnel of Residential Care Facilities and Child Placing Agencies is amended.**

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 2, 2025 (50 MoReg 27-29). No changes have been made to the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: No comments were received.

**TITLE 13 – DEPARTMENT OF SOCIAL SERVICES**  
**Division 70 – MO HealthNet Division**  
**Chapter 20 – Pharmacy Program**

**ORDER OF RULEMAKING**

By the authority vested in the Department of Social Services, MO HealthNet Division, under sections 208.201 and 660.017, RSMo 2016, and section 208.153, RSMo Supp. 2024, the division amends a rule as follows:

**13 CSR 70-20.075 340B Drug Pricing Program is amended.**

A notice of proposed rulemaking containing the text of the proposed amendment was published in the *Missouri Register* on January 2, 2025 (50 MoReg 29-36). No changes have been made to the text of the proposed amendment, so it is not reprinted here. This proposed amendment becomes effective thirty (30) days after publication in the *Code of State Regulations*.

SUMMARY OF COMMENTS: The MO HealthNet Division received one (1) comment on the proposed amendment.

COMMENT #1: Jenny Smith and Greg Teale, with BJC Health System, requested MHD designate points of contact to assist 340B covered entities (CEs) with solving compliance challenges, provide additional monitoring for and notification to CEs of potentially errant claims, extend reprocessing times for CEs when the division identifies such claims, and the division should guarantee payment to CEs for these drugs within five business days of the state's receipt of a clean claim from the CE.

RESPONSE: Thank you for your comments regarding the proposed amendments to 13 CSR 70-20.075 and the MO HealthNet Division (MHD) reimbursement policy for 340B-acquired outpatient drugs.

MHD understands the operational adjustments required for 340B covered entities to comply with the amended regulation and is committed to providing support during this transition. Providers may contact MHD Pharmacy Administration at MHD. PharmacyAdmin@dss.mo.gov or (573) 751-6963 for compliance and claim processing assistance. Providers must omit 340B identifiers (e.g., Submission Clarification Code 20, JG modifier, or TB modifier) when billing drugs. If a provider does submit a 340B indicator for one of the drugs on the carve-out list, the claim will be denied, preventing any duplicate discount

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concerns for these claims. Providers must ensure proper claims submission to avoid disruptions to reimbursement. Your request for a guaranteed five- (5-) business-day payment window for claims is beyond the scope of this regulation. No changes have been made to the amendment as a result of this comment.

This section may contain notice of hearings, correction notices, public information notices, rule action notices, statements of actual costs, and other items required to be published in the *Missouri Register* by law.

**TITLE 19 – DEPARTMENT OF HEALTH AND SENIOR**

**SERVICES**

**Division 60 – Missouri Health Facilities Review  
Committee**

**Chapter 50 – Certificate of Need Program**

**NOTIFICATION OF REVIEW:  
APPLICATION REVIEW SCHEDULE**

The Missouri Health Facilities Review Committee has initiated review of the CON applications listed below. A decision is tentatively scheduled for May 22, 2025. These applications are available for public inspection at the address shown below.

**Date Filed**

**Project Number:** Project Name

City (County)

Cost, Description

**4/09/2025**

#6193 HT: SSM Health St. Mary's Hospital

Jefferson City (Cole County)

\$2,125,432, Replace MRI

**4/10/2025**

#6195 HT: SSM RAYUS Radiology

Bridgeton (St. Louis County)

\$1,739,735, Replace MRI

**#6194 HT:** The University of Kansas Hospital

Authority-Liberty

Liberty (Clay County)

\$3,800,000, Replace hybrid OR

Any person wishing to request a public hearing for the purpose of commenting on these applications must submit a written request to this effect, which must be received by May 11, 2025. All written requests and comments should be sent to:

Chairman  
Missouri Health Facilities Review Committee  
c/o Certificate of Need Program  
920 Wildwood Dr.  
PO Box 570  
Jefferson City, MO 65102

For additional information, contact Alison Dorge at alison.dorge@health.mo.gov.

**Missouri Department of Revenue**

Run Date : 4/1/2025 6:01:12 AM

Taxation Division

**EI0130**

Show Secretary of State Cover: Yes

**Construction Transient Employer Listing**

The following is a list of all construction contractors performing work on construction projects in Missouri who are known by the Department of Revenue to be transient employers pursuant to Section 285.230, RSMo. This list is provided as a guideline to assist public bodies with their responsibilities under this section that states, "any county, city, town, village or any other political subdivision which requires a building permit for a person to perform certain construction projects shall require a transient employer to show proof that the employer has been issued a tax clearance and has filed a financial assurance instrument as required by Section 285.230 before such entity issues a building permit to the transient employer."

| Contractor Name                                    | Street Address           | Street Address 2 | City         | State | Zip Code   |
|--|--------------------------|------------------|--------------|-------|------------|
| 1 RESOURCE GROUP STAFFING LLC                      | 11111 KATY FWY STE 910   |                  | HOUSTON      | TX    | 77079-2119 |
| 1ST INTERIORS INC                                  | 1100 SE WESTBROOKE DR    |                  | WAUKEE       | IA    | 50263-8371 |
| 2H&V CONSTRUCTION SERVICES LLC                     | PO BOX 1301              |                  | BONIFAY      | FL    | 32425-4301 |
| 4MC CORPORATION                                    | 8040 JORDAN RD           |                  | ARGENTA      | IL    | 62501-6999 |
| A & B PROCESS SYSTEMS CORP                         | 212700 STAINLESS AVE     |                  | STRATFORD    | WI    | 54484-4324 |
| A & K CONSTRUCTION SERVICES INC                    | 100 CALLOWAY CT          |                  | PADUCAH      | KY    | 42001-9035 |
| A AND M ENGINEERING AND ENVIRONMENTAL SERVICES INC | 10010 E 16TH ST          |                  | TULSA        | OK    | 74128-4611 |
| A I INTERNATIONAL INC                              | 8055A NATIONAL TPKE      |                  | LOUISVILLE   | KY    | 40214-5201 |
| A&A CABLE CONTRACTORS INC                          | 12210 ANN LN             |                  | HOUSTON      | TX    | 77064-1202 |
| A.J. VENEKLASEN INCORPORATED                       | 5000 KENDRICK ST SE      |                  | GRAND RAPIDS | MI    | 49512-9648 |
| AAD CONTRACTING INC                                | PO BOX 14287             |                  | YOUNGSTOWN   | OH    | 44514-7287 |
| ABC CUTTING CONTRACTORS INC                        | PO BOX 8                 |                  | WHITELAND    | IN    | 46184-0008 |
| ABSOLUTE CONSTRUCTION NW INC                       | 954 KENNEDY AVE          |                  | SCHERERVILLE | IN    | 46375-7100 |
| ABSTRACTCO LLC                                     | 883 IL ROUTE 140         |                  | GREENVILLE   | IL    | 62246-3221 |
| ACADEMY ROOFING & SHEET METAL OF THE MIDWEST INC   | 6361 NE 14TH ST          |                  | DES MOINES   | IA    | 50313-1212 |
| ACCEL CONSTRUCTION LLC                             | 4015 N WOODLAWN CT STE 1 |                  | BEL AIRE     | KS    | 67220-3877 |
| ACCESS RIGGING LLC                                 | 514 ANCLOTE RD           |                  | TARPON SPGS  | FL    | 34689-6701 |
| ACCULEVEL INC                                      | 8233 W STATE ROAD 26     |                  | ROSSVILLE    | IN    | 46065-9582 |

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## Missouri Department of Revenue

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Taxation Division

EI0130

Show Secretary of State Cover: Yes

## Construction Transient Employer Listing

| Contractor Name                        | Street Address            | Street Address 2 | City           | State | Zip Code   |
|--|---------------------------|------------------|----------------|-------|------------|
| ACE AIR CONDITIONING INC               | 2985 ENTERPRISE RD STE A  |                  | DEBARY         | FL    | 32713-2710 |
| ACE AVANT CONCRETE CONSTRUCTION CO INC | PO BOX 14006              |                  | ARCHDALE       | NC    | 27263-7006 |
| A-CORE CONCRETE CUTTING INC            | 5360 S RILEY LN           |                  | MURRAY         | UT    | 84107-5820 |
| ACRONYM MEDIA INC                      | 350 5TH AVE STE 6500      |                  | NEW YORK       | NY    | 10118-6500 |
| ADAMS COUNTY GLASS INC                 | 2408 W SCHNEIDMAN DR      |                  | QUINCY         | IL    | 62305-1294 |
| ADVANCE ELECTRIC INC                   | 353 N INDIANA AVE         |                  | WICHITA        | KS    | 67214-4034 |
| ADVANCED ENERGY INC                    | PO BOX 128                |                  | SILOAM SPRINGS | AR    | 72761-0128 |
| ADVANCED SYSTEMS INC                   | 6627 COMMERCE PKWY        |                  | WOODSTOCK      | GA    | 30189-1438 |
| ADVANCED WORKZONE SERVICES LLC         | PO BOX 1569               |                  | MUSKOGEE       | OK    | 74402-1569 |
| AG PROPERTY SOLUTIONS                  | 3826 460TH AVE            |                  | EMMETSBURG     | IA    | 50536-8582 |
| AH BECK FOUNDATION CO INC              | 9014 GREEN RD             |                  | CONVERSE       | TX    | 78109-3356 |
| AHRS CONSTRUCTION INC                  | 533 RAILROAD ST           |                  | BERN           | KS    | 66408-8006 |
| AHTNA DESIGN-BUILD INC                 | 110 W 38TH AVE STE 100H   |                  | ANCHORAGE      | AK    | 99503-5677 |
| AIR QUALITY SYSTEMS LLC                | 207 W MAIN STREET #202    |                  | ALLEN          | TX    | 75013      |
| AIRCO SERVICE COMPANY INC              | 3131 STARLIGHT LN         |                  | EDWARDSVILLE   | IL    | 62025-6950 |
| ALDRIDGE ELECTRIC INC                  | 844 E ROCKLAND RD         |                  | LIBERTYVILLE   | IL    | 60048-3358 |
| ALL AMERICAN TRACK INC                 | PO BOX 186                |                  | ASH FORK       | AZ    | 86320-0186 |
| ALL PURPOSE ERECTORS INC               | 1112 STARLIFTER DR        |                  | LEBANON        | IL    | 62254-2724 |
| ALL SERVICE CONTRACTING CORP           | 2024 E DAMON AVE          |                  | DECATUR        | IL    | 62526-4749 |
| ALLIANCE GLAZING TECHNOLOGIES INC.     | 646 FORESTWOOD DR         |                  | ROMEOVILLE     | IL    | 60446-1378 |
| ALLIANCE RETAIL CONSTRUCTION INC       | 5952 CLARK CENTER AVE     |                  | SARASOTA       | FL    | 34238-2715 |
| ALSTON CONSTRUCTION COMPANY INC        | 400 CAPITOL MALL STE 2060 |                  | SACRAMENTO     | CA    | 95814-4436 |

Missouri Department of Revenue

Run Date : 4/1/2025 6:01:12 AM

Taxation Division

EI0130

Show Secretary of State Cover: Yes

Construction Transient Employer Listing

| Contractor Name                         | Street Address                 | Street Address 2 | City             | State | Zip Code   |
|---|--------------------------------|------------------|------------------|-------|------------|
| ALTERED GROUNDS OUTDOOR SERVICES LLC    | 4937 REDWOOD LN                |                  | GRANITE CITY     | IL    | 62040-2651 |
| ALTON FAMILY BUSINESSES LLC             | 16202 E BEAL RD                |                  | MOUNT VERNON     | IL    | 62864-8580 |
| AMARBOR SERVICES INC                    | 8500 WHITE TAIL TRL            |                  | CHESTER          | IL    | 62233-2838 |
| AMERICA INSTALLERS LLC                  | 4277 NEEDHAM RD                |                  | BAILEY           | NC    | 27807-8601 |
| AMERICAN INDUSTRIAL GROUP LLC           | 9746 PFLUMM RD                 |                  | LENEXA           | KS    | 66215-1206 |
| AMERICAN ROOFING                        | 2500 S 2ND ST                  |                  | LEAVENWORTH      | KS    | 66048-4542 |
| AMERICAN SEALANTS INC                   | 2483 RIVERSIDE PKWY            |                  | GRAND JCT        | CO    | 81505-1319 |
| AMERICOM WEST INC                       | 2910 WATERS RD STE 170         |                  | EAGAN            | MN    | 55121-1587 |
| AMES CONSTRUCTION INC                   | 2500 COUNTY ROAD 42 W          |                  | BURNSVILLE       | MN    | 55337-6911 |
| ANAGNOS DOOR COMPANY LLC                | 7600 ARCHER RD                 |                  | JUSTICE          | IL    | 60458-1144 |
| ANCHOR SIGN INC                         | PO BOX 22737                   |                  | CHARLESTON       | SC    | 29413-2737 |
| ANDIS LLC                               | 7897 TIPPENHAUER RD            |                  | HIGHLAND HEIGHTS | KY    | 41076-8834 |
| ANDREW'S ELECTRIC CO INC                | PO BOX 273                     |                  | GENEVA           | NE    | 68361-0273 |
| ANDRITZ HYDRO CORP.                     | 10735 DAVID TAYLOR DR STE 500  |                  | CHARLOTTE        | NC    | 28262-1289 |
| ANGELO IAFRATE INC                      | 26300 SHERWOOD AVE             |                  | WARREN           | MI    | 48091-4168 |
| ANNING JOHNSON COMPANY                  | 1959 ANSON DR                  |                  | MELROSE PARK     | IL    | 60160-1088 |
| ANSCO & ASSOCIATES LLC                  | 1220 OLD ALPHARETTA RD STE 380 |                  | ALPHARETTA       | GA    | 30005-3972 |
| AP PROFESSIONALS OF PHOENIX LLC         | 350 LINDEN OAKS                |                  | ROCHESTER        | NY    | 14625-2807 |
| APEX FIRE SPRINKLER COMPANY LLC.        | 1027 JUNCTION CIR              |                  | SPRINGFIELD      | IL    | 62704-5898 |
| APPLE ELECTRIC INTEGRATED SOLUTIONS INC | PO BOX 998                     |                  | LOUISBURG        | KS    | 66053-0998 |
| APPLIED POLYMERICS INC                  | 131 SAINT JAMES WAY            |                  | MOUNT AIRY       | NC    | 27030-6068 |
| ARACREBS1 LLC                           | PO BOX 1670                    |                  | SPRINGDALE       | AR    | 72765-1670 |

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|---|----------------------------|------------------|---------------|-------|------------|
| ARC RITE WELDING & FABRICATION LLC            | PO BOX 63131               |                  | PIPE CREEK    | TX    | 78063-3131 |
| ARCHITECTURAL FABRICATION INC                 | 2100 E RICHMOND AVE        |                  | FORT WORTH    | TX    | 76104-6304 |
| ARCHWALL LLC                                  | PO BOX 38                  |                  | STRAWBERRY PT | IA    | 52076-0038 |
| ARENA PRODUCTS AND SERVICES LLC               | PO BOX 2230                |                  | ELIZABETH     | CO    | 80107-2230 |
| ARNDT ENTERPRISES INC                         | 2579 195TH ST              |                  | DE WITT       | IA    | 52742-9114 |
| ARVOS LJUNGSTROM LLC                          | 3020 TRUAX RD              |                  | WELLSVILLE    | NY    | 14895-9531 |
| ASA CARLTON INC                               | 100 HIGHPOINT PARK WAY     |                  | BRASELTON     | GA    | 30517-3326 |
| ASPHALT CONTRACTORS INC                       | 1701 MAIN ST               |                  | UNION GROVE   | WI    | 53182-1752 |
| ASPS HOLDINGS LLC                             | 10101 SAGINAW BLVD         |                  | FORT WORTH    | TX    | 76179-5208 |
| ASSOCIATED FIRE PROTECTION CORP               | 4905 S 97TH ST             |                  | OMAHA         | NE    | 68127-2202 |
| ATLANTIC TRACK RUNWAY SERVICES LLC            | 2903 ARKANSAS BLVD         |                  | TEXARKANA     | AR    | 71854-2535 |
| ATLAS LAND CONSULTING LLC                     | 14500 PARALLEL RD STE R    |                  | BASEHOR       | KS    | 66007-3001 |
| ATWOOD ELECTRIC INC                           | PO BOX 311                 |                  | SIGOURNEY     | IA    | 52591-0311 |
| AUTHORIZED GRAIN SERVICE LLC                  | 4508 GATEWAY CIR           |                  | DAYTON        | OH    | 45440-1712 |
| AUTOBUILDERS GENERAL CONTRACTING SERVICES INC | 5715 CORPORATE WAY         |                  | WEST PALM BCH | FL    | 33407-2003 |
| AUTOMATION & ELECTRONICS INC                  | PO BOX 2670                |                  | CASPER        | WY    | 82602-2670 |
| AVI-SPI LLC                                   | 6301 BENJAMIN RD STE 101   |                  | TAMPA         | FL    | 33634-5115 |
| AYARS & AYARS INC                             | 2436 N 48TH ST             |                  | LINCOLN       | NE    | 68504-3627 |
| B T GROUP HOLDINGS INC                        | 1717 S BOULDER AVE STE 300 |                  | TULSA         | OK    | 74119-4843 |
| B & S STEEL CO. LLC                           | 1604 S AVE                 |                  | MORNING SUN   | IA    | 52640-9698 |
| B D WELCH CONSTRUCTION LLC                    | 120 INDUSTRIAL STATION RD  |                  | STEELE        | AL    | 35987-0017 |

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| BACON FARMER WORKMAN ENGINEERING & TESTING INC | 500 S 17TH ST                   |                  | PADUCAH           | KY    | 42003-2819 |
| BAILEY CONSTRUCTION AND CONSULTING LLC         | 2200 N RODNEY PARHAM RD STE 206 |                  | LITTLE ROCK       | AR    | 72212-4155 |
| BAJA CONSTRUCTION CO INC                       | 223 FOSTER ST                   |                  | MARTINEZ          | CA    | 94553-1029 |
| BAKER ROOFING COMPANY LLC                      | 3500 REGENCY PKWY               |                  | CARY              | NC    | 27518-8519 |
| BANYAN CONSTRUCTION SERVICES LLC               | 650 PATRICK PL                  |                  | BROWNSBURG        | IN    | 46112-2110 |
| BARKER CONTRACTING INC.                        | 2127 E SPEEDWAY BLVD STE 101    |                  | TUCSON            | AZ    | 85719-4751 |
| BARNHART ENERGY CO LLC                         | 2163 AIRWAYS BLVD               |                  | MEMPHIS           | TN    | 38114-5208 |
| BARRIER TECHNOLOGIES LLC                       | 6860 W 153RD ST                 |                  | OVERLAND PARK     | KS    | 66223-3119 |
| BARTON ELECTRIC CONTRACTING INC                | 247 STATE ROUTE 160             |                  | TRENTON           | IL    | 62293-4667 |
| BASLER ELECTRIC COMPANY                        | 12570 STATE ROUTE 143           |                  | HIGHLAND          | IL    | 62249-1074 |
| BAUER DESIGN BUILD LLC                         | 14030 21ST AVE N                |                  | PLYMOUTH          | MN    | 55447-4686 |
| BAZIN SAWING & DRILLING LLC                    | 30790 SWITZER RD                |                  | LOUISBURG         | KS    | 66053-5903 |
| BCI ELECTRICAL INC                             | PO BOX 546                      |                  | GARDNER           | KS    | 66030-0546 |
| BEAM TEAM CONSTRUCTION INC                     | 1350 BLUEGRASS LAKES PKWY       |                  | ALPHARETTA        | GA    | 30004-3395 |
| BEAR ENERGY SERVICES INC                       | PO BOX 20554                    |                  | CHEYENNE          | WY    | 82003      |
| BEITZEL CORPORATION                            | 333 CORPORATE DR                |                  | GRANTSVILLE       | MD    | 21536-1280 |
| BEL O COOLING & HEATING INC                    | 8478 US HIGHWAY 50              |                  | LEBANON           | IL    | 62254-2524 |
| BELL CONSTRUCTION COMPANY INC.                 | PO BOX 9041                     |                  | NORTH LITTLE ROCK | AR    | 72119-9041 |
| BETTIS ASPHALT & CONSTRUCTION INC              | PO BOX 1694                     |                  | TOPEKA            | KS    | 66601-1694 |
| BIERMAN CONTRACTING INC                        | PO BOX 1887                     |                  | COLUMBUS          | NE    | 68602-1887 |
| BIG BOX ERECTORS LLC                           | 8403 E US HIGHWAY 36 STE B      |                  | AVON              | IN    | 46123-7961 |
| BLACKROCK MASONRY LLC                          | N1906 N LAKESHORE DR            |                  | FONTANA           | WI    | 53125-1178 |

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| BLAHNIK CONSTRUCTION COMPANY               | 150 50TH AVENUE DR SW      |                  | CEDAR RAPIDS | IA    | 52404-5038 |
| BLANKENSHIP CONSTRUCTION CO                | 1824 IL ROUTE 140          |                  | MULBERRY GRV | IL    | 62262-3303 |
| BLATTNER ENERGY LLC                        | 392 COUNTY ROAD 50         |                  | AVON         | MN    | 56310-8684 |
| BLCKLN CORPORATION                         | 1902 15TH ST STE 101       |                  | GULFPORT     | MS    | 39501-2111 |
| BLD SERVICES LLC                           | 2424 TYLER ST              |                  | KENNER       | LA    | 70062-4845 |
| BLUE SKY CONSTRUCTION OF IDAHO LLC         | 2365 E COLUMBIA RD         |                  | MERIDIAN     | ID    | 83642-7211 |
| BLUE TOP EXCAVATING LLC                    | 1521 330TH AVE             |                  | WEVER        | IA    | 52658-9539 |
| BLUEWATER CONSTRUCTORS INC                 | PO BOX 55482               |                  | HOUSTON      | TX    | 77255-5482 |
| BLUNIER BUILDERS INC                       | 97 EASTGATE DR             |                  | WASHINGTON   | IL    | 61571-9271 |
| BLUSKY RESTORATION CONTRACTORS LLC         | 9110 E NICHOLS AVE STE 180 |                  | CENTENNIAL   | CO    | 80112-3591 |
| BOB BERGKAMP CONSTRUCTION CO INC           | 3709 S WEST ST             |                  | WICHITA      | KS    | 67217-3898 |
| BOCO CONTRACTING & CONSTRUCTION LLC        | PO BOX 638                 |                  | BRIGHTON     | IL    | 62012-0638 |
| BODINE ELECTRIC OF DECATUR                 | PO BOX 976                 |                  | DECATUR      | IL    | 62525-1810 |
| BORTON CONSTRUCTION INC                    | 2 COPELAND AVE STE 201     |                  | LA CROSSE    | WI    | 54603-3419 |
| BOUMA FIRE INC                             | 2212 E 39TH ST N           |                  | SIOUX FALLS  | SD    | 57104-5409 |
| BRAD MOELLER ELECTRIC INC                  | 461 NW 57TH PLACE          |                  | DES MOINES   | IA    | 50313      |
| BRADSHAW CONSTRUCTION CORPORATION MARYLAND | 175 W LIBERTY RD           |                  | ELDERSBURG   | MD    | 21784-9381 |
| BRAMSON HOUSE INC                          | 151 ALBANY AVE             |                  | FREEPORT     | NY    | 11520-4710 |
| BRANCH BUILDING GROUP LLC                  | 324 MEADOWLAWN DR          |                  | FRANKLIN     | TN    | 37064-3206 |
| BREWSTER COMPANIES INC                     | 6321 E MAIN ST             |                  | MARYVILLE    | IL    | 62062-2014 |
| BRIAN WEST                                 | 330 N POPLAR ST STE B      |                  | CENTRALIA    | IL    | 62801-2963 |

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| BRIGSTONE MASONRY LLC                              | 1610 S ARKANSAS AVE STE 9 | SUITE 9          | RUSSELLVILLE | AR    | 72801-7100 |
| BROOKS DIRECTIONAL DRILLING LLC                    | 24531 102ND DR            |                  | BURDEN       | KS    | 67019-9202 |
| BROOKS ELECTRICAL                                  | 1107 N 1712 RD            |                  | LAWRENCE     | KS    | 66049-9714 |
| BROWN ELECTRIC INC                                 | PO BOX 220                |                  | GOREVILLE    | IL    | 62939-0220 |
| BROWN TANK LLC                                     | 6995 55TH ST N STE A      |                  | SAINT PAUL   | MN    | 55128-1726 |
| BRYAN-OHLMER CONST INC                             | 911 N PEARL ST            |                  | PAOLA        | KS    | 66071-1139 |
| BT&CO PC   | 4301 SW HUNTOON ST        |                  | TOPEKA       | KS    | 66604-1659 |
| BUCKLEY ROOFING COMPANY INC                        | 3601 N HYDRAULIC AVE      |                  | WICHITA      | KS    | 67219-3898 |
| BUDGET MAINTENANCE CONCRETE SERVICES INC           | 800 INDUSTRIAL HWY        |                  | POTTSTOWN    | PA    | 19464-6039 |
| BUFFALO GAP INSTRUMENTATION & ELECTRICAL COMPANY I | 2532 AYMOND ST            |                  | EUNICE       | LA    | 70535-6843 |
| BUILDING CONTROLS AND INTEGRATION INC              | 341 MEADOWBROOK CIR       |                  | GARDNER      | KS    | 66030-1115 |
| BUILDING ZONE INDUSTRIES LLC                       | 1233 S OLD HIGHWAY 91     |                  | KANARRAVILLE | UT    | 84742-7711 |
| BUILT RIGHT CONSTRUCTION OF OKLAHOMA LLC           | PO BOX 366                |                  | SAVANNA      | OK    | 74565-0366 |
| BULLEY & ANDREWS MASONRY RESTORATION LLC           | 1755 W ARMITAGE AVE       |                  | CHICAGO      | IL    | 60622-1189 |
| C & C DRYWALL AND FRAME INC                        | 5641 GOODMAN ST           |                  | MISSION      | KS    | 66202      |
| C.E. REEVE ROOFING A TECTA AMERICA COMPANY LLC     | 5421 W 84TH ST            |                  | INDIANAPOLIS | IN    | 46268-1520 |
| C.J HUGHES CONSTRUCTION COMPANY INC                | PO BOX 7305               |                  | HUNTINGTON   | WV    | 25776-7305 |
| CADY AQUASTORE                                     | 383 IL HWY 92             |                  | TAMPICO      | IL    | 61283      |
| CAMPBELL CONSTRUCTION JC INC                       | 461 RIVERCREST CT         |                  | MUKWONAGO    | WI    | 53149-1759 |
| CANNON UTILITY SERVICES LLC                        | 1320 E STATE ROUTE 15     |                  | BELLEVILLE   | IL    | 62220-4803 |

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|--|-------------------------------|-------------------------|-----------------|--------------|-----------------|
| CAPITAL INSULATION INC                           | 3113 SW VAN BUREN ST STE 131  |                         | TOPEKA          | KS           | 66611-2467      |
| CARDINAL INTERNATIONAL GROOVING & GRINDING LLC   | PO BOX 450                    | N                       | CONSHOHOCKEN    | PA           | 19428-0450      |
| CARPORT STRUCTURES CORPORATION                   | 1825 METAMORA RD              |                         | OXFORD          | MI           | 48371-2419      |
| CAS CONSTRUCTORS LLC                             | 3500 SW FAIRLAWN RD STE 200   |                         | TOPEKA          | KS           | 66614-3979      |
| CASEWORK SOLUTIONS INC                           | 100 NEW CENTURY PKWY STE B    |                         | NEW CENTURY     | KS           | 66031-1107      |
| CASEY INDUSTRIAL INC                             | 890 W CHERRY ST               |                         | LOUISVILLE      | CO           | 80027-3050      |
| CASH DEPOT LIMITED                               | 1740 COFRIN DR STE 2          |                         | GREEN BAY       | WI           | 54302-2086      |
| CATALYST AIR MANAGEMENT INC                      | 2505 BYINGTON SOLWAY RD       |                         | KNOXVILLE       | TN           | 37931-3854      |
| CB INDUSTRIES INC                                | 17250 NEW LENOX RD            |                         | JOLIET          | IL           | 60433-9758      |
| CB RECOVERY GROUP INC                            | 1821 WALDEN OFFICE SQ STE 300 |                         | SCHAUMBURG      | IL           | 60173-4272      |
| CCC GROUP INC                                    | PO BOX 200350                 |                         | SAN ANTONIO     | TX           | 78220-0350      |
| CDM Constructors INC                             | 75 STATE ST STE 701           |                         | BOSTON          | MA           | 02109-1940      |
| CE HUGHES MILLING INC                            | PO BOX 578                    |                         | JEFFERSONVILL E | IN           | 47131-0578      |
| CEMROCK LANDSCAPES INC                           | 4790 S JULIAN AVE             |                         | TUCSON          | AZ           | 85714-2123      |
| CENTRAL PLAINS ELECTRIC LLC                      | PO BOX 322                    |                         | BROOKLAND       | AR           | 72417-0322      |
| CENTRAL STATES INSPECTION SERVICES LLC OF KANSAS | 2200 W 6TH AVE                |                         | EL DORADO       | KS           | 67042-3166      |
| CENTRIC SECURITY & AUTOMATION INC                | 1 REGENCY PLAZA DR STE 300    |                         | COLLINSVILLE    | IL           | 62234-6127      |
| CERAM ENVIRONMENTAL INC                          | 7304 W 130TH ST STE 140       |                         | OVERLAND PARK   | KS           | 66213-2644      |
| CFE INC  | 35 INDUSTRIAL PARK BLVD       | BOX 1255                | ELMIRA          | NY           | 14901-1723      |
| CFI DESIGN MANAGEMENT INC                        | 6296 RUCKER RD STE C          |                         | INDIANAPOLIS    | IN           | 46220-4852      |
| CHAPMAN CANOPY INC                               | PO BOX 3527                   |                         | HUEYTOWN        | AL           | 35023-0527      |

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| CHARLES F EVANS CO INC                | PO BOX 228                   |                  | ELMIRA           | NY    | 14902-0228 |
| CHARPS LLC                            | 453 TOWER ST NW              |                  | CLEARBROOK       | MN    | 56634-4289 |
| CHATTANOOGA BOILER & TANK CO INC      | 1011 E MAIN STREET           |                  | CHATTANOOGA      | TN    | 37408      |
| CHEMPRO SERVICES INC                  | 3311 GULF BREEZE PKWY # 350  |                  | GULF BREEZE      | FL    | 32563-3351 |
| CHERNE CONTRACTING CORPORATION        | 7700 EASTPORT PKWY           |                  | LA VISTA         | NE    | 68128-4397 |
| CHESLEY COMMERCIAL FENCE AND RAIL INC | 9723 W STATE ROUTE 161 STE D |                  | FAIRVIEW HEIGHTS | IL    | 62208-1659 |
| CHESLEY FENCE CO INC                  | 9723 W STATE ROUTE 161       |                  | FAIRVIEW HEIGHTS | IL    | 62208-1659 |
| CHICAGO L&P SANDBLASTING INC          | 23758 S HIGHLAND DR          |                  | MANHATTAN        | IL    | 60442-9407 |
| C-HILL CIVIL CONTRACTORS INC          | 14 DEAN STREET               |                  | CAMPBELL HILL    | IL    | 62916-0058 |
| CHOATE CONSTRUCTION COMPANY           | 8200 ROBERTS DR STE 600      |                  | ATLANTA          | GA    | 30350-4148 |
| CIVIC ELITE CONTRACTING INC           | 13324 CHANDLER RD            |                  | OMAHA            | NE    | 68138-3701 |
| CJ DRILLING INC                       | 19N041 GALLIGAN RD           |                  | DUNDEE           | IL    | 60118-9536 |
| CL CONSTRUCTION LLC                   | 1927 COUNTY ROAD I           |                  | WAHOO            | NE    | 68066-4074 |
| CLARITY BOULDERS LLC                  | 188 WOODCREST DR             |                  | HIGHLAND         | IL    | 62249-1266 |
| CLASSIC INDUSTRIAL SERVICES INC       | 456 HIGHLANDIA DR            |                  | BATON ROUGE      | LA    | 70810-5906 |
| CLASSIC PROTECTIVE COATINGS INC       | N7670 STATE RD 25            |                  | MENOMONIE        | WI    | 54751      |
| CM CONCRETE INC                       | 211 E CROSSROAD STE 301      |                  | OLATHE           | KS    | 66062      |
| CM3 CONSTRUCTION GROUP LLC            | 610 UPTOWN BLVD STE 2000     |                  | CEDAR HILL       | TX    | 75104-3528 |
| CMC ELECTRIC INC                      | PO BOX 938                   |                  | MARYVILLE        | IL    | 62062-0938 |
| CML SPECIALTIES LLC                   | 1785 W 160TH AVE STE 700     |                  | BROOMFIELD       | CO    | 80023-8981 |
| CNR CONTRACTORS INC                   | 15479 STATE HIGHWAY 15       |                  | KIMBALL          | MN    | 55353-9788 |
| COACH HOUSE INC                       | PO BOX 320                   |                  | ARTHUR           | IL    | 61911      |
| CODE USA LP                           | 19785 W 12 MILE RD # 335     |                  | SOUTHFIELD       | MI    | 48076-2584 |

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| COLBY EXCAVATING LLC                      | PO BOX 370                    |                  | ABBOTSFORD   | WI    | 54405-0370 |
| COLCON INDUSTRIES CORPORATION             | PO BOX 647                    |                  | SULLIVAN     | IL    | 61951-0647 |
| COLD STORAGE CONSTRUCTION SERVICES INC    | 10611 COMMERCE ROW STE 250    |                  | MONTGOMERY   | TX    | 77356-3383 |
| COLUMBIA CONSTRUCTION INC                 | PO BOX 445                    |                  | SPRING HILL  | KS    | 66083-0445 |
| COMBES CONSTRUCTION LLC                   | 6946 W 207TH ST               |                  | BUCYRUS      | KS    | 66013-9264 |
| COMMAND CONSTRUCTION INC                  | PO BOX 398                    |                  | SEARCY       | AR    | 72145-0398 |
| COMMERCE CONSTRUCTION INC                 | 695 N 40TH ST                 |                  | SPRINGDALE   | AR    | 72762-0602 |
| COMMERCIAL IRRIGATION INC                 | 109 COMMERCIAL DR             |                  | EAST PEORIA  | IL    | 61611-7002 |
| COMMERCIAL LAWN MANAGEMENT OF WICHITA INC | 3215 E 9TH ST N               |                  | WICHITA      | KS    | 67208-3024 |
| COMMUNITY FIRST CONSTRUCTION LLC          | 9111 CROSS PARK DR STE D200   |                  | KNOXVILLE    | TN    | 37923-4521 |
| CONCORD TANK CORPORATION                  | PO BOX 5207                   |                  | CONCORD      | NC    | 28027-1503 |
| CONCRETE ERECTORS INC.                    | 2139 W STATE ROAD 434 STE 101 |                  | LONGWOOD     | FL    | 32779-5019 |
| CONCRETE EXPRESSIONS LLC                  | 291 E GLENN MILLER DR         |                  | CLARINDA     | IA    | 51632-2736 |
| CONCRETE RESOURCE COMPANY LLC             | 60 NORTH ST UNIT 369          |                  | MEDFIELD     | MA    | 02052-1149 |
| CONLEY SITWORK & UTILITIES INC            | PO BOX 715                    |                  | EUDORA       | KS    | 66025-0715 |
| CONSOLIDATED CONSTRUCTION OF MO CO INC    | 4300 N RICHMOND ST            |                  | APPLETON     | WI    | 54913-9704 |
| CONSTRUCTION AHEAD EXTERIORS INC          | 251 OCONNOR DR                |                  | ELKHORN      | WI    | 53121-4269 |
| CONSTRUCTION ENTERPRISES INC              | 2179 EDWARD CURD LN STE 100   |                  | FRANKLIN     | TN    | 37067-5789 |
| CONSTRUCTION ONE INC                      | 101 E TOWN ST STE 401         |                  | COLUMBUS     | OH    | 43215-5247 |
| CONTEGRA SERVICES LLC                     | 22 GTWAY COMM CTR W 110       |                  | EDWARDSVILLE | IL    | 62025      |
| CONTINENTAL CONSTRUCTION COMPANY OF TENN  | 5646 SHELBY OAKS DR           |                  | MEMPHIS      | TN    | 38134-7315 |

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| CONTINENTAL POOLS INC                           | 404 W WILSON ST                  |                  | OTTAWA        | KS    | 66067-1900 |
| CONTOUR FABRICATION & MECHANICAL INC            | PO BOX 4406                      |                  | EVANSVILLE    | IN    | 47724-0406 |
| CONWAY PHILLIPS HOLDING LLC                     | 13A TALBOT AVE                   |                  | BRADDOCK      | PA    | 15104-1113 |
| COOK BUILDERS INC                               | PO BOX 684                       |                  | CENTERVILLE   | UT    | 84014-0684 |
| COOPER RAIL SERVICE INC                         | PO BOX 199                       |                  | HUNTINGBURG   | IN    | 47542-0199 |
| COOPERS STEEL FABRICATORS                       | PO BOX 149                       |                  | SHELBYVILLE   | TN    | 37162-0149 |
| COPELAND ELECTRIC COMPANY LLC                   | 186 VENABLE LN                   |                  | MONROE        | LA    | 71203-2028 |
| CORCO CONSTRUCTION LLC                          | 4939 HIGHWAY 64 W                |                  | CONWAY        | AR    | 72034-3524 |
| CORRECTIVE ASPHALT MATERIALS LLC                | PO BOX 87129                     |                  | SOUTH ROXANA  | IL    | 62087-7129 |
| CORROTEC INC                                    | 1125 W NORTH ST                  |                  | SPRINGFIELD   | OH    | 45504-2713 |
| CORYELL ROOFING & CONSTRUCTION INC.             | 14220 S MERIDIAN AVE             |                  | OKLAHOMA CITY | OK    | 73173-8807 |
| COUNTY CONTRACTORS INC                          | PO BOX 3522                      |                  | QUINCY        | IL    | 62305-3522 |
| COWIN & CO INC MINING ENGINEERS AND CONTRACTORS | PO BOX 19009                     |                  | BIRMINGHAM    | AL    | 35219-9009 |
| COX AND COMPANY LLC                             | 2727 PACES FERRY RD SE STE 1-200 |                  | ATLANTA       | GA    | 30339-6151 |
| CPM CONSTRUCTION INC                            | 2560 S CLEVELAND AVE STE 7       |                  | SAINT JOSEPH  | MI    | 49085-2641 |
| CRADER CONSTRUCTION INC                         | 102 CAVINS RUN                   |                  | LEBANON       | IL    | 62254-1965 |
| CRAFT AND TECHNICAL SOLUTIONS LLC               | 30500 STATE HIGHWAY 181 STE 128  |                  | SPANISH FORT  | AL    | 36527-5806 |
| CRAMER AND ASSOCIATES INC                       | 3100 SW BROOKSIDE DR             |                  | GRIMES        | IA    | 50111-4977 |
| CREEK ELECTRIC INCORPORATED                     | 2811 W PAWNEE ST                 |                  | WICHITA       | KS    | 67213-1819 |
| CRESCENT CITY AMUSEMENTS LLC                    | 1527 GAUSE BLVD # 300            |                  | SLIDELL       | LA    | 70458-2244 |
| CROMWELL ENVIRONMENTAL INC                      | 615 VERMONT ST                   |                  | LAWRENCE      | KS    | 66044-2251 |
| CROOKHAM CONSTRUCTION LLC                       | PO BOX 339                       |                  | TONGANOXIE    | KS    | 66086-0339 |

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| CROWDERGULF LLC                               | 5629 COMMERCE BLVD E  |                  | MOBILE       | AL    | 36619-9225 |
| CRV SURVEILLANCE LLC                          | 277 LYON LN           |                  | BIRMINGHAM   | AL    | 35211-6407 |
| CSD ENVIRONMENTAL SERVICES INC                | 2220 YALE BLVD        |                  | SPRINGFIELD  | IL    | 62703-3516 |
| CUSTOM MECHANICAL LLC                         | 9413 LEBANON RD       |                  | LEBANON      | IL    | 62254-3007 |
| CUSTOM POOL LLC                               | 32 HOWARD DR          |                  | BELLEVILLE   | IL    | 62223-4016 |
| CWPMO INC                                     | 1682 Langley Ave      |                  | IRVINE       | CA    | 92614-5620 |
| D & D INDUSTRIAL CONTRACTING INC              | 101 MULLEN DR         |                  | WALTON       | KY    | 41094-9607 |
| D & L EXCAVATING INC                          | 1958 HIGHWAY 104      |                  | LIBERTY      | IL    | 62347-2141 |
| D T READ STEEL CO. INC.                       | 1751 WEST RD          |                  | CHESAPEAKE   | VA    | 23323-6430 |
| DADE CONSTRUCTION LLC                         | 6430 OAK GROVE RD     |                  | KANSAS CITY  | KS    | 66106-5434 |
| DAHMES STAINLESS INC                          | 526 4TH AVE SW        |                  | NEW LONDON   | MN    | 56273      |
| DAVACO LP                                     | 4050 VALLEY VIEW LANE | STE 150          | IRVING       | TX    | 75038      |
| DAVIDSON ELECTRIC COMPANY INC.                | 4051F FM 528 RD       |                  | ALVIN        | TX    | 77511-0507 |
| DAVIS CONSTRUCTION                            | 2143 NE HIGHWAY 7     |                  | COLUMBUS     | KS    | 66725-2093 |
| DBS GROUP LLC                                 | 200 FRENCH RD         |                  | ONALASKA     | WI    | 54650-8814 |
| DCLI LLC                                      | PO BOX 333            |                  | LEON         | IA    | 50144-0333 |
| DE MARTIN ROOFING CO INC                      | 6719 STATE ROUTE 4    |                  | MASCOUTAH    | IL    | 62258-3907 |
| DEAN SNYDER CONSTRUCTION CO                   | PO BOX 181            |                  | CLEAR LAKE   | IA    | 50428-0181 |
| DEFINITIVE HOME AND DESIGN INCORPORATED       | 1820 ORR LN           |                  | O FALLOON    | IL    | 62269-6220 |
| DEJAGER CONSTRUCTION INCORPORATED             | 75 60TH ST SW         |                  | WYOMING      | MI    | 49548-5771 |
| DELAWARE ELEVATOR INC                         | 2210 ALLEN DR         |                  | SALISBURY    | MD    | 21801-8059 |
| DELTA CONCRETE AND INDUSTRIAL CONTRACTING INC | 51825 GRATIOT AVE     |                  | CHESTERFIELD | MI    | 48051-2014 |

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|--|----------------------------|------------------|---------------|-------|------------|
| DELTA RAILROAD CONSTRUCTION INC                | PO BOX 1398                |                  | ASHTABULA     | OH    | 44005-1398 |
| DELTA STAR INC                                 | 3550 MAYFLOWER DR          |                  | LYNCHBURG     | VA    | 24501-5019 |
| DENISON DRYWALL CONTRACTING INC                | PO BOX 453                 |                  | DENISON       | IA    | 51442-0453 |
| DESCO SYSTEMS OF ARKANSAS INC                  | PO BOX 2658                |                  | OLATHE        | KS    | 66063-0658 |
| DEXTERIORS CONTRACTING LLC                     | 1525 LEBANON AVE           |                  | BELLEVILLE    | IL    | 62221-4077 |
| DF CHASE INC                                   | 3001 ARMORY DR STE 200     |                  | NASHVILLE     | TN    | 37204-3711 |
| DIAMOND CONSTRUCTION COMPANY                   | 2000 N 18TH ST             |                  | QUINCY        | IL    | 62301-1435 |
| DIECKER-TERRY MASONRY INC                      | 11327 EIFF RD              |                  | MARISSA       | IL    | 62257-1409 |
| DIGI SECURITY SYSTEMS LLC                      | PO BOX 470708              |                  | TULSA         | OK    | 74147-0708 |
| DIVERSIFIED TRACK WORKS LLC                    | 17671 US HIGHWAY 6         |                  | GENESEO       | IL    | 61254-8620 |
| DL SMITH ELECTRICAL CONSTRUCTION INC           | 1405 SW 41ST ST            |                  | TOPEKA        | KS    | 66609-1295 |
| DM2 LLC  | 1209 COUNTY HIGHWAY J23    |                  | CLEARFIELD    | IA    | 50840-8814 |
| DMS CONTRACTING INC                            | 10243 FUESSER RD           |                  | MASCOUTAH     | IL    | 62258-2843 |
| DN TANKS OF MISSOURI LLC                       | 11 TEAL RD                 |                  | WAKEFIELD     | MA    | 01880-1223 |
| DON ERBERT LLC                                 | 220 N HOLIDAY LN           |                  | IOLA          | KS    | 66749-1522 |
| DON JULIAN BUILDERS INC                        | PO BOX 14305               |                  | KANSAS CITY   | MO    | 64152-7305 |
| DONDLINGER AND SONS CONSTRUCTION CO INC        | 2656 S SHERIDAN AVE        |                  | WICHITA       | KS    | 67217-1341 |
| DONE RITE CONSTRUCTION CO INC                  | 10277 IL ROUTE 101         |                  | LITTLETON     | IL    | 61452-4924 |
| DOOLEY MACK CONSTRUCTORS OF SOUTH CAROLINA LLC | 620 DOBBIN RD              |                  | CHARLESTON    | SC    | 29414-5585 |
| DORMARK CONSTRUCTION CO                        | PO BOX 530                 |                  | GRIMES        | IA    | 50111-0530 |
| DOSTER CONSTRUCTION COMPANY INC                | 2100 INTERNATIONAL PARK DR |                  | BIRMINGHAM    | AL    | 35243-4209 |
| DOTSON ELECTRIC COMPANY INC                    | 551 CAL BATSEL RD          |                  | BOWLING GREEN | KY    | 42104-8520 |

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| DOUBLE S ELECTRIC INC                      | 18740 CEDAR NILES RD       |                  | GARDNER      | KS    | 66030-9388 |
| DRILLED SHAFT CO                           | 4119 SW SOUTHGATE DR       |                  | TOPEKA       | KS    | 66609-1227 |
| DSB DOCK SERVICES LLC                      | 2200 FM 1192               |                  | PILOT POINT  | TX    | 76258-2307 |
| DTLS INCORPORATED                          | PO BOX 1615                |                  | BERNALILLO   | NM    | 87004-1615 |
| DUBUQUE BARGE AND FLEETING SERVICE COMPANY | 5 JONES ST                 |                  | DUBUQUE      | IA    | 52001-7674 |
| DUERSON INC                                | 601 1ST AVE N              |                  | ALTOONA      | IA    | 50009-1431 |
| DYCKMAN & SCHOMAKER PLUMBING LLC           | 9311 BODE RD               |                  | WORDEN       | IL    | 62097-1627 |
| DYKON BLASTING CORP                        | 8120 W 81ST ST             |                  | TULSA        | OK    | 74131-2876 |
| DYWIDAG SYSTEMS INTERNATIONAL USA INC      | 320 MARMON DR              |                  | BOLINGBROOK  | IL    | 60440-3078 |
| DZI CONSTRUCTION SERVICES INC              | 9675 NORTHWEST CT          |                  | CLARKSTON    | MI    | 48346-1744 |
| E LIGHT ELECTRIC SERVICES INC.             | 361 INVERNESS DR S STE B   |                  | ENGLEWOOD    | CO    | 80112-5861 |
| E&T ELECTRIC LLC                           | 229 9TH AVE                |                  | GREELEY      | CO    | 80631      |
| E80 PLUS CONSTRUCTORS LLC                  | 7120 PATTON RD             |                  | DEFOREST     | WI    | 53532-1836 |
| EBERHART SIGN & LIGHTING CO                | 104 1ST AVE                |                  | EDWARDSVILLE | IL    | 62025-2574 |
| EBERT CONSTRUCTION CO INC                  | PO BOX 198                 |                  | WAMEGO       | KS    | 66547-0198 |
| EBM CONSTRUCTION INC                       | 1014 SHERWOOD RD           |                  | NORFOLK      | NE    | 68701-9060 |
| ECKINGER CONSTRUCTION COMPANY              | 2340 SHEPLER CHURCH AVE SW |                  | CANTON       | OH    | 44706-3093 |
| ECM HOLDING GROUP INC                      | 2750 VINLAND ST            |                  | OSHKOSH      | WI    | 54901-1526 |
| EDNA LUMBER CO INC                         | PO BOX 820                 |                  | EDNA         | TX    | 77957-0820 |
| EJ SIGN CO LLC                             | 1309 S 204TH ST STE 330    |                  | ELKHORN      | NE    | 68022-2880 |
| ELDER JONES INC                            | 1120 E 80TH ST STE 102     |                  | MINNEAPOLIS  | MN    | 55420-1498 |
| ELECTRICAL BUILDERS INC                    | 2720 1 1/2 ST S            |                  | SAINT CLOUD  | MN    | 56301-3805 |

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| ELECTRICO INC                           | 7706 WAGNER RD                    |                  | MILLSTADT                 | IL    | 62260-2910 |
| ELECTRO DOOR SYSTEMS INC                | 610 S MAIN ST                     |                  | COLUMBIA                  | IL    | 62236-2427 |
| ELEVATOR SAFETY INSPECTION SERVICES INC | 835 CENTRAL AVE STE 327           | SUITE 327        | HOT SPRINGS NATIONAL PARK | AR    | 71901-5318 |
| ELFORD INC                              | 1220 DUBLIN RD                    |                  | COLUMBUS                  | OH    | 43215-1008 |
| ELITE EXCAVATION LLC                    | 1230 N LUCY MONTGOMERY WAY        |                  | OLATHE                    | KS    | 66061-6765 |
| ELLIOTT ELECTRICAL INC                  | 22095 INTERSTATE 30 S             |                  | BRYANT                    | AR    | 72022-8581 |
| ELLSWORTH ELECTRIC INC                  | 4425 N HIGHWAY 81                 |                  | DUNCAN                    | OK    | 73533-8950 |
| EMBREE CONSTRUCTION GROUP INC OF TEXAS  | 4747 WILLIAMS DR                  |                  | GEORGETOWN                | TX    | 78633-3799 |
| EMCO CHEMICAL DISTRIBUTORS INC          | 8601 95TH ST                      |                  | PLEASANT PRAIRIE          | WI    | 53158-2205 |
| EMERALD TRANSFORMER PPM LLC             | 7850 COLLIN MCKINNEY PKWY STE 200 |                  | MCKINNEY                  | TX    | 75070-2141 |
| ENGINEERED AIR BALANCE CO INC           | 3309 MATRIX DR                    |                  | RICHARDSON                | TX    | 75082-2736 |
| ENGINEERED FLUID INC                    | PO BOX 723                        |                  | CENTRALIA                 | IL    | 62801-9111 |
| ENGLEWOOD CONSTRUCTION INC              | 80 MAIN ST                        |                  | LEMONT                    | IL    | 60439-3622 |
| ENVIRO FIELD SERVICES INC               | PO BOX 590                        |                  | BAY SPRINGS               | MS    | 39422-0590 |
| ENVIROCON INC                           | PO BOX 16655                      |                  | MISSOULA                  | MT    | 59808-6655 |
| ENVIRONMENTAL ACTION INC                | PO BOX 1029                       |                  | JENKS                     | OK    | 74037-1029 |
| EPCS COMPANY                            | 1241 S 31ST ST W                  |                  | BILLINGS                  | MT    | 59102-7314 |
| EPOXY KC LLC                            | PO BOX 861253                     |                  | SHAWNEE                   | KS    | 66286-1253 |
| ERNIE LOBERG CONSTRUCTION CO            | 311 E ILLINOIS AVE                |                  | PALATINE                  | IL    | 60067-7132 |
| ERV SMITH SERVICES INC                  | 1225 TRUAX BLVD                   |                  | EAU CLAIRE                | WI    | 54703-1468 |
| ESI CONSTRUCTORS INC                    | 950 WALNUT RIDGE DR               |                  | HARTLAND                  | WI    | 53029-9388 |
| ESSI LLC                                | 1400 W SHADY GROVE RD             |                  | GRAND PRAIRIE             | TX    | 75050-7117 |

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| EVCO NATIONAL                       | PO BOX 407                 |                  | EAST ALTON      | IL    | 62024-0407 |
| EVERGREEN CAISSENS INC.             | PO BOX 172109              |                  | DENVER          | CO    | 80217-2109 |
| EVERGREEN ROADWORKS LLC             | 1414 W ANTHONY DR          |                  | URBANA          | IL    | 61802-7299 |
| EXPLOSIVE PROFESSIONALS LLC         | 22 AUDREY PLACE            |                  | FAIRFIELD       | NJ    | 07004      |
| F & M CONTRACTORS INC               | PO BOX 149                 |                  | CLAYTON         | OH    | 45315-0149 |
| F L CRANE & SONS INC                | PO BOX 428                 |                  | FULTON          | MS    | 38843-0428 |
| FAHRNER ASPHALT SEALERS L.L.C.      | 2800 MECCA DR              |                  | PLOVER          | WI    | 54467-3224 |
| FARABEE MECHANICAL INC              | PO BOX 1748                |                  | HICKMAN         | NE    | 68372-1748 |
| FARIST INSTALLATION COMPANY LLC     | 1452 OLD HART RD           |                  | LEXINGTON       | TN    | 38351-7986 |
| FARMER EXCAVATING INC               | 15440 94TH ST              |                  | OSKALOOSA       | KS    | 66066-4122 |
| FCL BUILDERS LLC                    | 1150 Spring Lake Dr        |                  | Itasca          | IL    | 60143-2066 |
| FEDERAL FIRE AND SECURITY LLC       | PO BOX 1782                |                  | OWENSBORO       | KY    | 42302-1782 |
| FEDERAL STEEL & ERECTION CO         | 206 E ALTON AVE            |                  | EAST ALTON      | IL    | 62024-1464 |
| FERGUSON GLASS LLC                  | 773 W SPRING ST            |                  | SOUTH ELGIN     | IL    | 60177-1407 |
| FICKETT STRUCTURAL SOLUTIONS INC    | 8383 GREENWAY BLVD STE 220 | STE 220          | MIDDLETON       | WI    | 53562-3506 |
| FIRE & SECURITY SOLUTIONS GROUP INC | 4008 E 138TH ST            |                  | GRANDVIEW       | MO    | 64030-2838 |
| FIRE PROTECTION PROFESSIONALS LLC   | 1031 OFFICE PARK RD STE 4  |                  | WEST DES MOINES | IA    | 50265-2582 |
| FIRELAKE CONSTRUCTION INC           | 1011 E 31ST ST             |                  | LAWRENCE        | KS    | 66046-5103 |
| FISHER SMITH INC                    | 1564 HILL TOP RD           |                  | COLUMBIA        | IL    | 62236-4536 |
| FLAHERTY & COLLINS CONSTRUCTION INC | 8900 KEYSTONE CRSING 1200  |                  | INDIANAPOLIS    | IN    | 46240      |
| FLAME ON INC                        | 12632 WAGNER RD            |                  | MONROE          | WA    | 98272-9732 |
| FLEETWOOD SERVICES LLC              | 4311 WILLOW ST             |                  | DALLAS          | TX    | 75226-1131 |

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| FLEXIBLE OR SOLUTIONS LLC                | 4955 BELL SPRINGS RD UNIT 16   |                  | DRIPTING SPRINGS | TX    | 78620-5576 |
| FLINT ROCK ELECTRIC LLC                  | 14945 CREE RD                  |                  | WESTMORELAND     | KS    | 66549-9456 |
| FLORIAN BROTHERS LLC                     | PO BOX 353                     |                  | GRAND ISLAND     | NE    | 68802-0353 |
| FLORIAN MILLWRIGHT LLC                   | PO BOX 353                     |                  | GRAND ISLAND     | NE    | 68802-0353 |
| FLUENT SOLAR LLC                         | 808 E UTAH VALLEY DR           |                  | AMERICAN FORK    | UT    | 84003-9707 |
| FORCEPOWER STAFFING INC                  | PO BOX 534                     |                  | NORFOLK          | NE    | 68702-0534 |
| FORD CONSTRUCTION COMPANY                | PO BOX 527                     |                  | DYERSBURG        | TN    | 38025-0527 |
| FORT SMITH STRUCTURAL INC                | PO BOX 180249                  |                  | FORT SMITH       | AR    | 72918-0249 |
| FOSTER ROOFING INC                       | 3357 WAGON WHEEL RD            |                  | SPRINGDALE       | AR    | 72762-0106 |
| FOUNDATION SERVICE CORP                  | PO BOX 120                     |                  | HUDSON           | IA    | 50643-0120 |
| FOUR WINDS UNDERGROUND LLC               | PO BOX 331                     |                  | STORY CITY       | IA    | 50248-0331 |
| FR FLOW CONTROL VALVES US BIDCO INC.     | 29 OLD RIGHT RD                |                  | IPSWICH          | MA    | 01938-1119 |
| FRANCIS ENERGY MANAGEMENT CO LLC         | 15 E 5TH ST STE 821            |                  | TULSA            | OK    | 74103-4346 |
| FRANK W SCHAEFER INC                     | 1300 GRANGE HALL RD            |                  | BEAVERCREEK      | OH    | 45430-1013 |
| FREEDOM CONCRETE LLC                     | PO BOX 731                     |                  | DE SOTO          | KS    | 66018-0731 |
| FREEDOM FIRE PRO LLC                     | 811 LESTER LN                  |                  | ROGERS           | AR    | 72756-9814 |
| FREEDOM FOREVER MISSOURI LLC             | 43445 BUSINESS PARK DR STE 104 |                  | TEMECULA         | CA    | 92590-3670 |
| FRONTIER MECHANICAL LC                   | PO BOX 71487                   |                  | SALT LAKE CTY    | UT    | 84171-0487 |
| FSG FACILITY SOLUTIONS GROUP INC         | 4401 W GATE BLVD STE 310       |                  | AUSTIN           | TX    | 78745-1494 |
| FULCRUM EXPRESS INC                      | 1945 THE EXCHANGE SE STE 400   |                  | ATLANTA          | GA    | 30339-2090 |
| G & L TANK SANDBLASTING AND COATINGS LLC | 2101 HIGHWAY 64 W              |                  | SHELBYVILLE      | TN    | 37160-6328 |
| G.A. RICH & SONS INC                     | PO BOX 50                      |                  | DEER CREEK       | IL    | 61733-0050 |

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| G4CM LLC                              | 5424 SHORELINE DR                          |                  | MOUND            | MN    | 55364-1631 |
| GALA SYSTEMS INC                      | 3185 FIRST STREET                          |                  | ST HUBERT CANADA | QC    | J3Y 8Y6    |
| GARRISON PLUMBING INC                 | 15430 S MAHAFFIE ST                        |                  | OLATHE           | KS    | 66062-2755 |
| GATOR SIGN COMPANY INC                | 1027 KAREY ANDREWS RD                      |                  | MCCOMB           | MS    | 39648-9446 |
| GAYLOR ELECTRIC INC                   | 5750 CASTLE CREEK PARKWAY NORTH DR STE 400 |                  | INDIANAPOLIS     | IN    | 46250-4337 |
| GELLY EXCAVATING & CONSTRUCTION INC   | 13297 PLOCHER WAY                          |                  | HIGHLAND         | IL    | 62249-4543 |
| GEMCO CONSTRUCTORS LLC                | 6525 GUION RD                              |                  | INDIANAPOLIS     | IN    | 46268-4808 |
| GENERAL WASTE SERVICES INC            | PO BOX 90                                  |                  | ALTON            | IL    | 62002-0090 |
| GENPRO ENERGY SOLUTIONS LLC           | PO BOX 30                                  |                  | PIEDMONT         | SD    | 57769-0030 |
| GEORGE H PASTOR & SONS INC            | 34018 BEACON ST                            |                  | LIVONIA          | MI    | 48150-1533 |
| GEOSUPPORT SYSTEMS INC                | 13232 C ST                                 |                  | OMAHA            | NE    | 68144-3669 |
| GERALD N CANDITO CONSTRUCTION CORP    | 3580 CANTRELL INDUSTRIAL CT NW             |                  | ACWORTH          | GA    | 30101-6401 |
| GERARD TANK & STEEL INC               | PO BOX 513                                 |                  | CONCORDIA        | KS    | 66901-0513 |
| GERARDO OLAGUE-MARTINEZ               | 2241 S TERRACE DR                          |                  | WICHITA          | KS    | 67218-5027 |
| GHR CONTRACTING 2 LLC                 | PO BOX 912                                 |                  | EDWARDSVILLE     | IL    | 62025-0912 |
| GIBRALTAR CONSTRUCTION COMPANY INC    | 42 HUDSON ST STE A207                      |                  | ANNAPOLIS        | MD    | 21401-8537 |
| GIFFIN INC                            | 1900 BROWN RD                              |                  | AUBURN HILLS     | MI    | 48326-1701 |
| GINGERICH STRUCTURES LLC              | 1903 HIGHWAY 30                            |                  | MISSOURI VALLEY  | IA    | 51555-5007 |
| GLASS DESIGN INCORPORATED OF MISSOURI | PO BOX 568                                 |                  | SAPULPA          | OK    | 74067-0568 |
| GLEESON ASPHALT INC                   | 2800 W MAIN ST                             |                  | BELLEVILLE       | IL    | 62226-6612 |
| GLOBAL METALIZING CORPORATION         | 1335 OLD DIXIE HWY UNIT 22                 |                  | LAKE PARK        | FL    | 33403-1968 |

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| GO GREEN CONSTRUCTION INC                | 3442 BABCOCK BLVD        |                  | PITTSBURGH    | PA    | 15237-2454 |
| GOAL 1 ROOF RESPONSE LLC                 | 14217 W 141ST ST         |                  | OLATHE        | KS    | 66062-6599 |
| GOETTLE EQUIPMENT COMPANY                | 12071 HAMILTON AVE       |                  | CINCINNATI    | OH    | 45231-1032 |
| GOODART CONSTRUCTION INC                 | 26685 WAVERLY RD         |                  | PAOLA         | KS    | 66071-4135 |
| GOOLSBY INC                              | PO BOX 14                |                  | BLYTHEVILLE   | AR    | 72316-0014 |
| GORDON ENERGY AND DRAINAGE COMPANY       | 15735 S MAHAFFIE ST      |                  | OLATHE        | KS    | 66062-4038 |
| GORDON VAN LAAN EXCAVATING LLC           | PO BOX E                 |                  | MOLINE        | MI    | 49335      |
| GOSS FOUNDATIONS INC                     | 1057 BLACKWOOD ST        |                  | ALTAMONTE SPG | FL    | 32701-7705 |
| GRAPHIC HOUSE INC                        | 8101 INTERNATIONAL DR    |                  | WAUSAU        | WI    | 54401-8411 |
| GRAYWOLF INTEGRATED CONSTRUCTION COMPANY | 2205 RAGU DR             |                  | OWENSBORO     | KY    | 42303-1437 |
| GRAZZINI BROTHERS & COMPANY              | 1175 EAGAN INDUSTRIAL RD |                  | EAGAN         | MN    | 55121-1205 |
| GREAT LAKES CONCRETE PRODUCTS LLC        | 4555 134TH AVE           |                  | HAMILTON      | MI    | 49419-8579 |
| GREAT PLAINS STRUCTURES LLC              | 3301 LABORE RD           |                  | SAINT PAUL    | MN    | 55110-5149 |
| GREEN SERVICES INC                       | 8550 FOREST BLVD         |                  | CASEYVILLE    | IL    | 62232-1212 |
| GREENSCAPE POOLS AND LANDSCAPING LLC     | 4180 CANAL RD            |                  | EDWARDSVILLE  | IL    | 62025-7322 |
| GREENTRAC LLC                            | 300 W MORGAN ST          |                  | BUNKER HILL   | IL    | 62014-1036 |
| GREYPOINT CONSTRUCTION LLC               | 11637 MILL DAM CT        |                  | BENTONVILLE   | AR    | 72713-7912 |
| GREYTHON CONSTRUCTION LLC                | 31 WATER ST              |                  | MYSTIC        | CT    | 06355-2568 |
| GRIBBINS INSULATION COMPANY INC          | 1400 E COLUMBIA ST       |                  | EVANSVILLE    | IN    | 47711-5222 |
| GRIFFIN CONTRACT DEWATERING LLC          | 5306 CLINTON DR          |                  | HOUSTON       | TX    | 77020-7912 |
| GRIZZLY FIRE PROTECTION LLC              | 808 ERNEST SURRENCEY RD  |                  | ODUM          | GA    | 31555-9010 |
| GROOM CONSTRUCTION CO INC                | 96 SWAMPSCOTT RD         |                  | SALEM         | MA    | 01970-1795 |

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| GRUS INC                            | 3209 E 3RD AVE                  |                  | TAMPA        | FL    | 33605-5711 |
| GUARDIAN ELECTRIC LLC               | 506 N 6TH ST                    |                  | SAINT MARYS  | KS    | 66536-1306 |
| GULLETT FENCE AND GUARD RAIL INC    | PO BOX 914                      |                  | OTTUMWA      | IA    | 52501-0914 |
| GUS CONST CO INC                    | PO BOX 77                       |                  | CASEY        | IA    | 50048-0077 |
| GUTHRIE INDUSTRIAL COATING INC      | 1400 POLK ST                    |                  | GREAT BEND   | KS    | 67530-3619 |
| GUY HOPKINS CONSTRUCTION INC        | 13855 W AMBER AVE               |                  | BATON ROUGE  | LA    | 70809-5440 |
| H & H SYSTEMS & DESIGN INC          | 135 W MARKET ST                 |                  | NEW ALBANY   | IN    | 47150-3561 |
| H & M INDUSTRIAL SERVICES INC       | PO BOX 200                      |                  | JACKSON      | TN    | 38302-0200 |
| H AND M CONSTRUCTION CO INC         | PO BOX 200                      |                  | JACKSON      | TN    | 38302-0200 |
| H E SCOTT INC                       | 4264 WINTERS CHAPEL RD # D      |                  | DORAVILLE    | GA    | 30360-3197 |
| HABASIT AMERICA INC                 | 2670 LEISZCS BRIDGE RD UNIT 200 |                  | LEESPORT     | PA    | 19533-9433 |
| HABCO INC                           | 248 E BERG RD                   |                  | SALINA       | KS    | 67401-8907 |
| HAIER PLUMBING & HEATING INC        | 301 N ELKTON ST                 |                  | OKAWVILLE    | IL    | 62271-1896 |
| HAILSOLVE INC                       | 1513 16TH AVE S                 |                  | NASHVILLE    | TN    | 37212-2905 |
| HALEY CONSTRUCTION INC              | 9 AVIATOR WAY                   |                  | ORMOND BEACH | FL    | 32174-2983 |
| HALEY DEAN LLC                      | 4645 S 1575 E                   |                  | OGDEN        | UT    | 84403-4392 |
| HALL CONTRACTING OF KENTUCKY INC    | PO BOX 37270                    |                  | LOUISVILLE   | KY    | 40233-7270 |
| HANNA DESIGN GROUP INC              | 1955 W DOWNER PL                |                  | AURORA       | IL    | 60506-4384 |
| HANSEN RICE INC                     | 1717 E CHISHOLM DR              |                  | NAMPA        | ID    | 83687-6846 |
| HARBINGER CONCRETE CONSTRUCTION INC | 1520 E DOUGLAS AVE STE 210      |                  | WICHITA      | KS    | 67214-4106 |
| HARBOUR CONSTRUCTION INC            | 2717 S 88TH ST                  |                  | KANSAS CITY  | KS    | 66111-1757 |
| HARCO SERVICES LLC                  | PO BOX 2347                     |                  | KENNESAW     | GA    | 30156-9105 |

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|--|-----------------------------|------------------|--------------|-------|------------|
| HARMAN HUFFMAN CONSTRUCTION GROUP INC. | 5615 HUFFMAN DR             |                  | KECHI        | KS    | 67067-9054 |
| HAROLD COFFEY CONSTRUCTION CO INC      | P.O. BOX 300                |                  | HICKMAN      | KY    | 42050      |
| HAROLD O'SHEA BUILDERS INC             | 3401 CONSTITUTION DR        |                  | SPRINGFIELD  | IL    | 62711-7013 |
| HARVEY NASH INC                        | 1700 STATE ROUTE 23 STE 100 |                  | WAYNE        | NJ    | 07470-7529 |
| HASTCO INC                             | 2801 NW BUTTON RD           |                  | TOPEKA       | KS    | 66618-1457 |
| HAWKEYE INSULATION SPECIALISTS INC     | 755 64TH AVENUE CT SW STE A |                  | CEDAR RAPIDS | IA    | 52404-7001 |
| HAYER LLC                              | 9119 RIDGE RD               |                  | SPARTA       | IL    | 62286-3316 |
| HAYES INDUSTRIES INC                   | 1611 VILLA ST               |                  | ELGIN        | IL    | 60120-7522 |
| HD PAINTING AND STAIN LLC              | 1201 STATE STREET RD        |                  | BELLEVILLE   | IL    | 62220-2855 |
| HEALY CONSTRUCTION SERVICES INC        | 14000 KEELER AVE            |                  | CRESTWOOD    | IL    | 60418-2352 |
| HEARTLAND CONTRACTING SERVICES INC     | PO BOX 119                  |                  | WELLSTON     | OK    | 74881-0119 |
| HEARTLAND FINISHES INC.                | 1305 NE BROADWAY AVE        |                  | DES MOINES   | IA    | 50313-2437 |
| HEARTLAND WINDOW TREATMENTS INC        | 1305 NE 46TH AVE            |                  | DES MOINES   | IA    | 50313-2669 |
| HEIDELBERG ENGINEERING INC             | 10 FORGE PKWY STE 1         |                  | FRANKLIN     | MA    | 02038-3137 |
| HEINEN CUSTOM OPERATIONS INC           | PO BOX 182                  |                  | VALLEY FALLS | KS    | 66088-0182 |
| HEINTZ POOL & SPA COMPANY              | 453 MARKETPLACE DR          |                  | FREEBURG     | IL    | 62243-4076 |
| HENDRICKSON TRANSPORTATION LLC         | 2762 310TH ST               |                  | HAMBURG      | IA    | 51640-5069 |
| HERMANSON COMPANY LLP                  | 1221 2ND AVE N              |                  | KENT         | WA    | 98032-2945 |
| HICKEY CONTRACTING COMPANY             | PO BOX 68                   |                  | KEOKUK       | IA    | 52632-0068 |
| HICKS LIGHTNING PROTECTION INC         | 7420 FM 2449                |                  | PONDER       | TX    | 76259-8051 |
| HIGH CONCRETE GROUP LLC                | PO BOX 10008                |                  | LANCASTER    | PA    | 17605-0008 |

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| HIGHLAND STEEL ERECTORS INC        | PO BOX 590                      |                  | HELENWOOD       | TN    | 37755-0590 |
| HILLARD ELECTRIC INC               | 11855 WHITE CREEK AVE NE        |                  | CEDAR SPRINGS   | MI    | 49319-9417 |
| HINDERLITER CONSTRUCTION INC       | 3601 N SAINT JOSEPH AVE         |                  | EVANSVILLE      | IN    | 47720-1351 |
| HOFFMANN SILO CORPORATION          | 6001 49TH ST S                  |                  | MUSCATINE       | IA    | 52761-1153 |
| HOLDER CONSTRUCTION GROUP LLC      | 3300 RIVERWOOD PKWY SE STE 1200 |                  | ATLANTA         | GA    | 30339-3967 |
| HOLLAND CONSTRUCTION SERVICES INC. | 4495 N ILLINOIS ST STE E        |                  | SWANSEA         | IL    | 62226-1005 |
| HOLLAND CONTRACTING CORP           | 1400 S 4TH ST                   |                  | FOREST CITY     | IA    | 50436-2158 |
| HOLLIS ROOFING INC                 | PO BOX 2229                     |                  | COLUMBUS        | MS    | 39704-2229 |
| HOME CENTER CONSTRUCTION INC       | 420 W ATKINSON RD               |                  | PITTSBURG       | KS    | 66762-8634 |
| HOOPER CONSTRUCTION CORPORATION    | PO BOX 7455                     |                  | MADISON         | WI    | 53707-7455 |
| HOPCO CONSTRUCTION                 | PO BOX 9008                     |                  | OMAHA           | NE    | 68109-0008 |
| HORIZON GENERAL CONTRACTORS INC    | 7315 W ELIZABETH LN             |                  | FT WORTH        | TX    | 76116-6444 |
| HORIZONTAL BORING & TUNNELING CO   | PO BOX 429                      |                  | EXETER          | NE    | 68351-0429 |
| HPC INDUSTRIAL SERVICES LLC        | 900 GEORGIA AVE                 |                  | DEER PARK       | TX    | 77536-2518 |
| HPI TURBINE SERVICES LLC           | 15534 W HARDY RD STE 220        |                  | HOUSTON         | TX    | 77060-3634 |
| HUGHES NELSON PAINTING INC         | 720 INDIGO CT                   |                  | POMONA          | CA    | 91767-2262 |
| HUTTON CORPORATION                 | 111 N SYCAMORE ST               |                  | WICHITA         | KS    | 67203-6121 |
| HYDRO TECHNOLOGIES INC             | 6200 E HIGHWAY 62 UNIT 100      |                  | JEFFERSONVILL E | IN    | 47130-8769 |
| ICON INDUSTRIAL SERVICES LLC       | 50 50TH AVENUE DR SW            |                  | CEDAR RAPIDS    | IA    | 52404-5033 |
| IES COMMUNICATIONS LLC             | 2 RIVERWAY STE 1730             |                  | HOUSTON         | TX    | 77056-1431 |
| I-HAWL LAND SPECIALIST LLC         | 140 SOUTHWINDS RD STE 137       |                  | FARMINGTON      | AR    | 72730-8688 |
| INDIAN NATION FIRE SPRINKLER LLC   | 8166 E 44TH ST                  |                  | TULSA           | OK    | 74145-4831 |

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| INDIANAPOLIS CONSTRUCTION SERVICES INC.            | PO BOX 768                     |                  | LEBANON       | IN    | 46052-0768 |
| INDUSTRIAL INSULATION SERVICES INC                 | 2200 W 6TH AVE                 |                  | EL DORADO     | KS    | 67042-3166 |
| INDUSTRIAL MAINTENANCE OF TOPEKA INC               | 9577 110TH ST                  |                  | OZAWKIE       | KS    | 66070-5041 |
| INDUSTRIAL SALES COMPANY INC                       | 1150 W MARLEY RD               |                  | OLATHE        | KS    | 66061-7208 |
| INDUSTRIAL TANK SERVICES LLC                       | PO BOX 1685                    |                  | WAUSAU        | WI    | 54402-1685 |
| INDUSTRY SERVICES CO INC                           | 6265 RANGELINE RD              |                  | THEODORE      | AL    | 36582-5245 |
| INGRAM CONSTRUCTION COMPANY INC OF MADISON MISSISS | PO BOX 1609                    |                  | MADISON       | MS    | 39130-1609 |
| INLAND POTABLE SERVICES                            | 16297 E CRESTLINE LN           |                  | CENTENNIAL    | CO    | 80015-4211 |
| INNOVATIVE COMBUSTION TECHNOLOGIES INC             | 2192 PARKWAY LAKE DR STE H     | STE H            | HOOVER        | AL    | 35244-2813 |
| INNOVATIVE CONSTRUCTION INC                        | 295 MAIN ROAD                  |                  | TIVERTON      | RI    | 02878      |
| INNOVATIVE CONSTRUCTION SOLUTIONS INC              | N19W24101 RIVERWOOD DR STE 100 |                  | WAUKESHA      | WI    | 53188-1497 |
| INSULATED PANEL COMPANY                            | 9245 IVANHOE ST                |                  | SCHILLER PARK | IL    | 60176-2305 |
| INSULATION TECHNOLOGIES INC                        | 2007 BUTTON LN                 |                  | LA GRANGE     | KY    | 40031-8726 |
| INTEGRATED ENVIRONMENTAL SERVICES INC              | PO BOX 490815                  |                  | BLAINE        | MN    | 55449-0815 |
| INTEGRATED POWER CO                                | PO BOX 1743                    |                  | NORTH PLATTE  | NE    | 69103-1743 |
| INTERNATIONAL STRAIGHTENING INC                    | 1218 HORSEMAN PL               |                  | BISMARCK      | ND    | 58501-7789 |
| INTERRAIL SIGNAL INCORPORATED                      | 12443 SAN JOSE BLVD STE 1103   |                  | JACKSONVILLE  | FL    | 32223-8657 |
| INTERSTATE GRINDING LLC                            | 5505 E EL DELMO ST             |                  | GARDEN CITY   | KS    | 67846-9632 |
| INTERSTATE RESTORATION LLC                         | 3401 QUORUM DR STE 300         |                  | FORT WORTH    | TX    | 76137-3621 |
| INTEX CONSTRUCTION LLC                             | 3802 N 135TH ST W              |                  | MAIZE         | KS    | 67101-9535 |

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| IOWA CIVIL CONTRACTING INC           | PO BOX Q                 |                  | VICTOR          | IA    | 52347-0916 |
| IOWA TRENCHLESS LC                   | PO BOX 846               |                  | PANORA          | IA    | 50216-0846 |
| IRON FLY STEEL FABRICATION LLC       | 3232 S PLATTE RIVER DR   |                  | ENGLEWOOD       | CO    | 80110-2102 |
| ISLAND EXTERIOR FABRICATORS LLC      | 1101 SCOTT AVE           |                  | CALVERTON       | NY    | 11933-3056 |
| IVS HYDRO INC                        | PO BOX 245               |                  | WAVERLY         | WV    | 26184-0245 |
| J & D CONSTRUCTION INC               | PO BOX 446               |                  | MONTEVIDEO      | MN    | 56265-0446 |
| J F BRENNAN COMPANY INC              | PO BOX 2557              |                  | LA CROSSE       | WI    | 54602-2557 |
| J P CULLEN & SONS INC                | PO BOX 5957              |                  | JANESVILLE      | WI    | 53547-5957 |
| J&H RENSING INC                      | 1470 DRY CREEK AVE       |                  | GREENVILLE      | IL    | 62246-2935 |
| JACK A FARRIOR INC                   | PO BOX 839               |                  | FARMVILLE       | NC    | 27828-0839 |
| JACKSON DEAN CONSTRUCTION INC        | 19835 SE 248TH ST        |                  | MAPLE VALLEY    | WA    | 98038-8769 |
| JACOBS GROUP GENERAL CONTRACTORS INC | 3515 MATTINGLY RD        |                  | BUCKNER         | KY    | 40010-8801 |
| JACOBS LADDER INC                    | 2325 COBDEN SCHOOL RD    |                  | COBDEN          | IL    | 62920-3489 |
| JAKES ELECTRIC LLC                   | 207 ALLEN ST             |                  | CLINTON         | WI    | 53525-9498 |
| JAMES AGRESTA CARPENTRY              | 150 ENGLISH ST           |                  | HACKENSACK      | NJ    | 07601-3937 |
| JAMES HUNT CONSTRUCTION CO INC       | 1865 SUMMIT RD           |                  | CINCINNATI      | OH    | 45237-2803 |
| JAMES N GRAY CONSTRUCTION CO INC     | PO BOX 8330              |                  | LEXINGTON       | KY    | 40533-8330 |
| JANET MARSHALL CONSTRUCTION INC      | 10245 LOCUST MOUNTAIN RD |                  | MOUNTAINBURG    | AR    | 72946-3308 |
| JANSEN ELECTRIC COMPANY              | 4421 N 60TH ST           |                  | QUINCY          | IL    | 62305-0640 |
| JANSONS ASSOCIATES INC               | 130 MOZART ST            |                  | EAST RUTHERFORD | NJ    | 07073-1468 |
| JARRETT INDUSTRIES INC               | PO BOX 87189             |                  | SOUTH ROXANA    | IL    | 62087-7189 |
| JASON TANKING CONSTRUCTION LLC       | PO BOX 3969              |                  | LAWRENCE        | KS    | 66046-0969 |

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| JAYEFF CONSTRUCTION CORPORATION          | 1800 STATE ROUTE 34 STE 403 |                  | WALL TOWNSHIP  | NJ    | 07719-9167 |
| JAYGER CONSTRUCTION GROUP LLC            | 15010 W 106TH ST            |                  | LENEXA         | KS    | 66215-2052 |
| JB HOLLAND CONSTRUCTION INC.             | 2092 HWY 9 W                |                  | DECORAH        | IA    | 52101      |
| JBZ INC                                  | PO BOX 7202                 |                  | SILOAM SPRINGS | AR    | 72761-7202 |
| JC JOCO JOHNSON COUNTY HEATING & COOLING | 226 DELAWARE ST             |                  | STILWELL       | KS    | 66085-9469 |
| JEN MECHANICAL INC                       | 2813 W DELMAR AVE           |                  | GODFREY        | IL    | 62035-1221 |
| JESCO INC                                | 2020 MCCULLOUGH BLVD        |                  | TUPELO         | MS    | 38801-7108 |
| JETTON GENERAL CONTRACTING INC           | 215 UNION ST # 400          |                  | JONESBORO      | AR    | 72401-2814 |
| JF EDWARDS CONSTRUCTION COMPANY          | 220 S CHICAGO ST            |                  | GENESEO        | IL    | 61254-1456 |
| J-HAWK PLUMBING INC                      | 416 S MCCOMAS ST            |                  | WICHITA        | KS    | 67213-2336 |
| JIM RIVER FENCING LLC                    | 45275 299TH ST              |                  | IRENE          | SD    | 57037-6002 |
| JOE R JONES CONSTRUCTION INC             | PO BOX 873                  |                  | WEATHERFORD    | TX    | 76086-0873 |
| JOHN A PAPALAS & CO INC                  | 1187 EMPIRE AVE             |                  | LINCOLN PARK   | MI    | 48146-2099 |
| JOHN P DUFFY CONSTRUCTION COMPANY INC    | 13220 METCALF AVE STE 365   |                  | OVERLAND PARK  | KS    | 66213-2844 |
| JONES SIGN CO INC                        | 1711 SCHEURING RD           |                  | DE PERE        | WI    | 54115-9414 |
| JORDY & COMPANY                          | 1212 S BROADWAY STE 100     |                  | DENVER         | CO    | 80210-1584 |
| JOSH MILLER DBA MILLER EXCAVATING INC    | 211 W DENNIS AVE            |                  | OLATHE         | KS    | 66061-4303 |
| JP BURNS EXCAVATING INC                  | 1025 ELKS WAY               |                  | OSAGE BEACH    | MO    | 65065      |
| JRCT INCORPORATED                        | 2098 TOM AUSTIN HWY         |                  | GREENBRIER     | TN    | 37073-5192 |
| JT BUILD LLC                             | 12707 DRIVE IN RD           |                  | BREESE         | IL    | 62230      |
| JTH WIND LLC                             | 1400 S 4TH ST               |                  | FOREST CITY    | IA    | 50436-2158 |

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|  |                                     |  |               |    |            |
|--|-------------------------------------|--|---------------|----|------------|
| JUN CONSTRUCTION CO.<br>INC.                 | PO BOX 263                          |  | GODFREY       | IL | 62035-0263 |
| K. WEST GROUP LLC                            | 8305 FREMONT PIKE                   |  | PERRYSBURG    | OH | 43551-9427 |
| KAISER ELECTRICAL<br>CONTRACTORS INC         | 340 ERIE AVE                        |  | MORTON        | IL | 61550-9600 |
| KAMADULSKI<br>EXCAVATING & GRADING<br>CO INC | 4336 HIGHWAY 162                    |  | GRANITE CITY  | IL | 62040-6409 |
| KANE FIRE PROTECTION<br>INC                  | 170 E ALTON AVE                     |  | EAST ALTON    | IL | 62024-1443 |
| KANSAS DUSTROL INC                           | PO BOX 309                          |  | TOWANDA       | KS | 67144-0309 |
| KAROVI CONCRETE<br>SERVICES LLC              | 21425 W 180TH STREET                |  | OLATHE        | KS | 66062      |
| KARR TUCKPOINTING LLC                        | PO BOX 417                          |  | VINTON        | IA | 52349-0417 |
| KASPARIE<br>CONSTRUCTION<br>COMPANY          | 4707 HIDDEN COVE ROAD               |  | QUINCY        | IL | 62305-0436 |
| KBS CONSTRUCTORS INC                         | 1701 SW 41ST ST                     |  | TOPEKA        | KS | 66609-1252 |
| KC ELECTRICAL<br>CONTRACTORS LLC             | 7312 LEISURELY DR                   |  | EFFINGHAM     | KS | 66023-5041 |
| KEA CONTRACTORS LLC                          | PO BOX M                            |  | MILFORD       | NE | 68405-0623 |
| KEELEY & SONS INC                            | 6303 COLLINSVILLE RD                |  | E SAINT LOUIS | IL | 62201-2523 |
| KEEN COMPANY INC                             | 1934 N ILLINOIS ST                  |  | INDIANAPOLIS  | IN | 46202-1319 |
| KEEN PROJECT<br>SOLUTIONS LLC                | 3001 SE CONVENIENCE BLVD<br>STE 101 |  | ANKENY        | IA | 50021-8503 |
| KELLY GLASS INC.                             | 2400 SW ADAMS ST                    |  | PEORIA        | IL | 61602-1807 |
| KENDALL CONSTRUCTION<br>INC                  | 2551 NW BUTTON RD                   |  | TOPEKA        | KS | 66618-1411 |
| KENDREK ELECTRIC INC                         | PO BOX 9411                         |  | WICHITA       | KS | 67277-0411 |
| KENNEDY<br>CONSTRUCTION INC                  | 1312 17TH ST # 1419                 |  | DENVER        | CO | 80202-1508 |
| KEOKUK CONTRACTORS<br>INC                    | 853 JOHNSON STREET RD               |  | KEOKUK        | IA | 52632-2213 |
| KERRICOOK<br>CONSTRUCTION INC                | 17999 FOLTZ PKWY                    |  | STRONGSVILLE  | OH | 44149-5565 |

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| KIMCO USA INC                     | 118 E TREFZ DR               |                  | MARSHALL         | IL    | 62441-3974 |
| KING AUTOMATION INC               | 4300 STONE STATION RD        |                  | ROEBUCK          | SC    | 29376-3626 |
| KING OF TEXAS ROOFING COMPANY LP  | 307 GILBERT CIR              |                  | GRAND PRAIRIE    | TX    | 75050-6579 |
| KINLEY CONSTRUCTION GROUP LP      | 7301 COMMERCIAL BLVD E       |                  | ARLINGTON        | TX    | 76001-7149 |
| KINZLER CONSTRUCTION SERVICES INC | 700 SE ORALABOR RD           |                  | ANKENY           | IA    | 50021-5616 |
| KIRBY SPECIALTIES CORPORATION     | 2401 E 16TH ST               |                  | RUSSELLVILLE     | AR    | 72802-2631 |
| KIRK GROSS COMPANY                | 4015 ALEXANDRA DR            |                  | WATERLOO         | IA    | 50702-6119 |
| KLAVER CONSTRUCTION COMPANY INC   | PO BOX 9163                  |                  | WICHITA          | KS    | 67277-0163 |
| KLM ENGINEERING INCORPORATED      | 1976 WOODDALE DR STE 4       |                  | WOODBURY         | MN    | 55125-4359 |
| KNIGHT ELECTRIC OF TEXAS INC      | 800 TOPEKA ST                |                  | JUSTIN           | TX    | 76247-4625 |
| KNUTSON BROTHERS INC              | PO BOX 353                   |                  | REDWOOD FALLS    | MN    | 56283-0353 |
| KOESTER CONSTRUCTION COMPANY INC  | 3050 SE ENTERPRISE DR STE A  |                  | GRIMES           | IA    | 50111-5055 |
| KOKOSING INDUSTRIAL INC           | 6235 WESTERVILLE RD          |                  | WESTERVILLE      | OH    | 43081-4041 |
| KOONTZ ELECTRIC COMPANY INC       | PO BOX 501                   |                  | MORRILTON        | AR    | 72110-0501 |
| KORTE & LUITJOHAN CONTRACTORS INC | 12052 HIGHLAND RD            |                  | HIGHLAND         | IL    | 62249-1342 |
| KOSS CONSTRUCTION COMPANY         | PO BOX 751263                |                  | TOPEKA           | KS    | 66675-1263 |
| KOVILIC CONSTRUCTION COMPANY INC. | PO BOX 939                   |                  | FRANKLIN PARK    | IL    | 60131-0939 |
| KRAEMER NORTH AMERICA LLC         | PO BOX 220                   |                  | PLAIN            | WI    | 53577-0220 |
| KUHLMAN REFRIGERATION INC         | N56W16865 RIDGEWOOD DR # 100 |                  | MENOMONEE FLS    | WI    | 53051-5656 |
| L PETERS CONSTRUCTION INC         | PO BOX 223                   |                  | COLUMBIA         | IL    | 62236-0223 |
| LADD SERVICE COMPANY LLC          | 1520 STATE AVE               |                  | TONGANOXIE       | KS    | 66086-9312 |
| LAKEVIEW CONSTRUCTION LLC         | 10505 CORPORATE DR STE 200   |                  | PLEASANT PRAIRIE | WI    | 53158-1605 |

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| LAND ART LANDSCAPING INC         | 12429 HOWE DR              |                  | LEAWOOD         | KS    | 66209-1451 |
| LANHAM INSULATION INC            | 40 KINGBROOK PKWY STE 4    |                  | SIMPSONVILLE    | KY    | 40067      |
| LARSON HARVESTING INC            | 447 SUNFLOWER RD           |                  | WATERVILLE      | KS    | 66548-8904 |
| LAVEN ELECTRIC LLC               | 836 SPRUCE ST              |                  | LEAVENWORTH     | KS    | 66048-2581 |
| LAVERDIERE CONSTRUCTION INC.     | 4055 W JACKSON ST          |                  | MACOMB          | IL    | 61455-7723 |
| LAWN-MEX INC                     | 15 JOHNSON PL REAR         |                  | BELLEVILLE      | IL    | 62223-3102 |
| LAYTON ROOFING COMPANY INC.      | PO BOX 870                 |                  | RIVERTON        | UT    | 84065-0870 |
| LEE MACHINERY MOVERS INC         | 675 CESAR E CHAVEZ AVE     |                  | PONTIAC         | MI    | 48340-2459 |
| LEGATUS COMPANY LLC              | 1910 PACIFIC AVE STE 17060 |                  | DALLAS          | TX    | 75201-4826 |
| LEICK CONSTRUCTION INC           | 22027 221ST ST             |                  | GLENWOOD        | IA    | 51534-5389 |
| LEJAS CORPORATION                | 6202 S MAPLE AVE           |                  | TEMPE           | AZ    | 85283-2861 |
| LENNOX AES HOLDINGS LLC          | 2171 AL HIGHWAY 229 S      |                  | TALLASSEE       | AL    | 36078-4738 |
| LEOPARDO COMPANIES INC           | 5200 PRAIRIE STONE PKWY    |                  | HOFFMAN ESTATES | IL    | 60192-3709 |
| LEROY C BOWMAN                   | 308 FAWN PARK CIR          |                  | COUNCIL BLFS    | IA    | 51503-5465 |
| LEXICON INC                      | PO BOX 16390               |                  | LITTLE ROCK     | AR    | 72231-6390 |
| LIBERTY MAINTENANCE INC          | 777 N MERIDIAN RD          |                  | YOUNGSTOWN      | OH    | 44509-1006 |
| LIGHTING SERVICES INC            | 9001 DUTTON DR             |                  | TWINSBURG       | OH    | 44087-1930 |
| LIGHTNING FOUNDATIONS INC        | 1209 COUNTY HIGHWAY J23    |                  | CLEARFIELD      | IA    | 50840-8814 |
| LIGHTNING PROTECTION SYSTEMS LLC | PO BOX 540445E             |                  | N SALT LAKE     | UT    | 84054-0445 |
| LILJA CORP                       | 229 RICKENBACKER CIR       |                  | LIVERMORE       | CA    | 94551-7616 |
| LINTZ LAWN & LANDSCAPING INC     | 8638 Le Pere School Rd     |                  | Millstadt       | IL    | 62260-3232 |
| LIPSMAYER DEMOLITION INC         | PO BOX 70                  |                  | BIGELOW         | AR    | 72016      |

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| LOCKE AMI LLC                       | 8802 N MERIDIAN ST           |                  | INDIANAPOLIS  | IN    | 46260-5380 |
| LOELLKE PLUMBING INC                | 22974 E COUNTY RD            |                  | JERSEYVILLE   | IL    | 62052-3174 |
| LONE STAR RAILROAD CONTRACTORS INC  | 4201 S INTERSTATE HIGHWAY 45 |                  | ENNIS         | TX    | 75119-0883 |
| LONGS DRILLING SERVICE INC          | 10554 HIGHWAY 392 W          |                  | HARRISON      | AR    | 72601-7771 |
| LOTEMP EQUIPMENT COMPANY            | 8707 N 29TH ST               |                  | OMAHA         | NE    | 68112-1848 |
| LOVEGREEN INDUSTRIAL SERVICES       | 2280 SIBLEY CT               |                  | EAGAN         | MN    | 55122-1998 |
| LOYD BUILDERS INC                   | PO BOX 266                   |                  | OTTAWA        | KS    | 66067-0266 |
| LR MOURNING CO                      | 2230 COTTONDALE LN STE 5     |                  | LITTLE ROCK   | AR    | 72202-2048 |
| LSX CONSTRUCTION LLC                | PO BOX 5                     |                  | PAOLA         | KS    | 66071-0005 |
| LYNN ELECTRIC & COMMUNICATIONS INC. | 725 N 2ND ST STE K           |                  | LAWRENCE      | KS    | 66044-1442 |
| LYTLE ELECTRIC COMPANY              | 202 N JEFFERSON ST           |                  | ROBINSON      | IL    | 62454-2721 |
| M & L ELECTRICAL INC                | 6060 SCOTTSVILLE RD          |                  | BOWLING GREEN | KY    | 42104-0388 |
| M & W CONTRACTORS INC               | PO BOX 2510                  |                  | EAST PEORIA   | IL    | 61611-0510 |
| M BOWLING MARINE INC                | PO BOX 491                   |                  | HENDERSON     | KY    | 42419-0491 |
| M&C WILLIAMS CONSTRUCTION LLC       | 2353 HIGHWAY 69A             |                  | PRYOR         | OK    | 74361-4501 |
| M2 FEDERAL INC                      | 705 W HOPKINS ST STE 112     |                  | SAN MARCOS    | TX    | 78666-4380 |
| MAAS CONSTRUCTION INC               | 3615 SAINT ANTHONY RD        |                  | QUINCY        | IL    | 62305-8121 |
| MAC INDUSTRIAL SERVICES INC.        | 604 N MAIN ST                | STE 1            | ROCHELLE      | IL    | 61068      |
| MACHINE REPAIR INTERNATIONAL        | 2526 MANKAS CORNER RD        |                  | FAIRFIELD     | CA    | 94534-3134 |
| MACON GC LLC                        | 201 BONITA AVE               |                  | BRADFORD      | IL    | 61421-5305 |
| MADDOX INDUSTRIAL LLC               | 5906 S HARDING ST            |                  | INDIANAPOLIS  | IN    | 46217-9594 |
| MAGNUM ELECTRIC OF MISSOURI INC     | 471 CHRISTIANSON DR          |                  | WEST FARGO    | ND    | 58078-8304 |

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| MAHANEY A TECTA AMERICA COMPANY LLC | 2214 S LINCOLN ST           |                  | AMARILLO        | TX    | 79109-2750 |
| MAJOR REFRIGERATION CO INC          | 314 W NORTHWESTERN AVE      |                  | NORFOLK         | NE    | 68701-6404 |
| MALCOLM DRILLING COMPANY INC        | 92 NATOMA ST STE 400        |                  | SAN FRANCISCO   | CA    | 94105-2685 |
| MANAGEMENT RESOURCE SYSTEMS INC     | 1907 BAKER RD               |                  | HIGH POINT      | NC    | 27263-2007 |
| MANATTS INC                         | PO BOX 535                  |                  | BROOKLYN        | IA    | 52211-0535 |
| MANHATTAN PIPELINE LLC              | 5601 S 122ND EAST AVE       | TULSA            | TULSA           | OK    | 74146-6912 |
| MANHATTAN ROAD & BRIDGE COMPANY LLC | 5601 S 122ND EAST AVE       |                  | TULSA           | OK    | 74146-6912 |
| MARCUS CONSTRUCTION CO INC          | 2580 HIGHWAY 12 E           |                  | WILLMAR         | MN    | 56201-5826 |
| MARINE SOLUTIONS OF KENTUCKY INC    | 225 INDUSTRY PKWY           |                  | NICHOLASVILLE   | KY    | 40356-9110 |
| MARKET & JOHNSON INC                | PO BOX 630                  |                  | EAU CLAIRE      | WI    | 54702-0630 |
| MATHIS EXCAVATING INC               | 527 QUILLMAN RD             |                  | DU QUOIN        | IL    | 62832-4102 |
| MAVO SYSTEMS INC                    | 4330 CENTERVILLE RD         |                  | WHITE BEAR LAKE | MN    | 55127-3676 |
| MAX ALLEY CONSTRUCTION LLC          | 6500 SUMMERHILL RD STE 2E   |                  | TEXARKANA       | TX    | 75503-1743 |
| MAX TRUE FIREPROOFING CO            | PO BOX 1029                 |                  | JENKS           | OK    | 74037-1029 |
| MAXXUS WELL CONTROL OF ILLINOIS INC | PO BOX 274                  |                  | ALTAMONT        | IL    | 62411-0274 |
| MC BUILDERS LLC                     | 203 W PIANKISHAW ST         |                  | PAOLA           | KS    | 66071-1430 |
| MC ELECTRIC INC                     | 7648 LL RD                  |                  | RED BUD         | IL    | 62278-2522 |
| MC5 CONSTRUCTION INC.               | 1186 TEXAS AVE              |                  | LU VERNE        | IA    | 50560-8805 |
| MCAFEE HENDERSON SOLUTIONS INC      | 15700 COLLEGE BLVD STE 202  |                  | LENEXA          | KS    | 66219-1473 |
| MCGOUGH CONSTRUCTION CO LLC         | 2737 FAIRVIEW AVE N         |                  | SAINT PAUL      | MN    | 55113-1372 |
| MCMILLEN INC                        | 1471 W SHORELINE DR STE 100 |                  | BOISE           | ID    | 83702-9104 |
| MCP BUSINESS SOLUTIONS INC          | 3501 SW FAIRLAWN RD STE 100 |                  | TOPEKA          | KS    | 66614-3975 |

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| MCSHANE CONSTRUCTION COMPANY LLC       | 9500 BRYN MAWR AVE STE 200 |                  | ROSEMONT        | IL    | 60018-5211 |
| MDR CONSTRUCTION INC                   | 621 E BAYLIS CHAPEL RD     |                  | COLUMBIA        | MS    | 39429-8089 |
| ME MECHANICAL INC                      | 2501 ELLINGTON RD          |                  | QUINCY          | IL    | 62305-8828 |
| ME&I CONSTRUCTION SERVICES INC         | 12101 CUTTEN RD            |                  | HOUSTON         | TX    | 77066-1811 |
| MECHANICAL CONSTRUCTION SERVICES INC   | PO BOX 335                 |                  | NEWARK          | AR    | 72562-0335 |
| MECHANICAL SYSTEMS INC                 | 500 COUNTY ROAD 1 E        |                  | DUNDAS          | MN    | 55019-4136 |
| MEI ELECTRIC INC                       | 436 TERRY DR               |                  | COLUMBIA        | IL    | 62236-1551 |
| MERCHCO SERVICES INC                   | PO BOX 701605              |                  | SAN ANTONIO     | TX    | 78270-1605 |
| MERIDIAN DESIGN BUILD INC              | 9550 W HIGGINS RD STE 400  |                  | ROSEMONT        | IL    | 60018-4906 |
| METAL CRAFT OF KC INC                  | 5138 MERRIAM DR            |                  | MERRIAM         | KS    | 66203-2158 |
| MEYER CONTRACTING AND CONSTRUCTION INC | 11000 93RD AVE N           |                  | MAPLE GROVE     | MN    | 55369-4113 |
| MEYLAN INDUSTRIAL SERVICES INC         | 3919 S 147TH ST STE 124    |                  | OMAHA           | NE    | 68144-5579 |
| MICHAEL REMODELING HANDYMAN LLC        | PO BOX 192                 |                  | PERRY           | KS    | 66073-0192 |
| MICHELS ROAD & STONE INC.              | 817 MAIN ST                |                  | BROWNSVILLE     | WI    | 53006-1444 |
| MICHIGAN COMMERCIAL CONTRACTORS INC    | 16745 COMSTOCK ST          |                  | GRAND HAVEN     | MI    | 49417-7949 |
| MICROWAVE TRANSMISSION SERVICES        | 1751 JAY ELL DR            |                  | RICHARDSON      | TX    | 75081-1835 |
| MID AMERICA MILLING COMPANY LLC        | 6200 E HIGHWAY 62 UNIT 100 |                  | JEFFERSONVILL E | IN    | 47130-8769 |
| MID AMERICA PIPELINE CONSTRUCTION INC  | PO BOX 1830                |                  | CATOOSA         | OK    | 74015-1830 |
| MID STATES INDUSTRIAL INC              | 519 SHIPYARD RD            |                  | SENECA          | IL    | 61360-9203 |
| MID-CONTINENTAL CARPENTRY LLC          | PO BOX 591                 |                  | BROOKLAND       | AR    | 72417-0591 |
| MIDDENDORF AND REUSS CONSTRUCTION INC  | 800 S BREEZE STREET STE 1  |                  | MILLSTADT       | IL    | 62260      |

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| MIDLAND RESTORATION COMPANY INC        | PO BOX 247                  |                  | FORT SCOTT      | KS    | 66701-0247 |
| MIDWEST COATING INC                    | 3830 NW 16TH ST             |                  | TOPEKA          | KS    | 66618-2846 |
| MIDWEST COOLING TOWERS INC             | 1156 E HIGHWAY 19           |                  | CHICKASHA       | OK    | 73018-6347 |
| MIDWEST CUSTOM POOLS LLC               | 600 LINCOLN ST              |                  | LAWRENCE        | KS    | 66044-5349 |
| MIDWEST INFRASTRUCTURE INC             | 5320 N 148TH ST             |                  | LINCOLN         | NE    | 68527-7000 |
| MIDWEST LIQUID SYSTEMS INC             | 1414 21ST AVE               | PO BOX 71        | ELDORA          | IA    | 50627-1914 |
| MIDWEST MECHANICAL INDUSTRIAL SERVICES | PO BOX 164                  |                  | LOGAN           | IA    | 51546-0164 |
| MIDWEST MOLE INC                       | 6814 W 350 N                |                  | GREENFIELD      | IN    | 46140-9617 |
| MIDWEST MOWING INC                     | 2450 OWENS LN               |                  | BRIGHTON        | IL    | 62012-1550 |
| MIDWESTERN MILLWRIGHT PC               | 111 S MAIN ST               |                  | FORT MORGAN     | CO    | 80701-2221 |
| MILESTONE CONSTRUCTION CO LLC          | 2002 S 48TH ST              |                  | SPRINGDALE      | AR    | 72762-5772 |
| MILLER INSULATION CO INC               | 3520 E CENTURY AVE          |                  | BISMARCK        | ND    | 58503-0739 |
| MIRA ENTERPRISES                       | 1117 N SEAMAN ST            |                  | EASTLAND        | TX    | 76448-1805 |
| MIXER SYSTEMS INC                      | PO BOX 10                   |                  | PEWAUKEE        | WI    | 53072-0010 |
| MJ PAINTING CONTRACTOR CORP            | 291 HOMER ST                |                  | OLEAN           | NY    | 14760-1131 |
| MJCC INC                               | 774 COUNTY ROAD V           |                  | WESTERN         | NE    | 68464-2521 |
| MJM SERVICES CONSTRUCTION INC          | PO BOX 24006                |                  | BELLEVILLE      | IL    | 62223-9006 |
| MODIFIED CONCRETE SUPPLIES LLC         | 6200 E HIGHWAY 62 BLDG 2501 |                  | JEFFERSONVILL E | IN    | 47130-8769 |
| MODULAR CONNECTIONS LLC                | 1090 INDUSTRIAL BLVD        |                  | BESSEMER        | AL    | 35022-6009 |
| MOLIN CONCRETE PRODUCTS CO INC         | 415 LILAC ST                |                  | LINO LAKES      | MN    | 55014-1098 |
| MOLLERS NORTH AMERICA INC              | PO BOX 888820               |                  | GRAND RAPIDS    | MI    | 49588-8820 |
| MOMENTUM GLASS KANSAS CITY LLC         | 25825 ALDINE WESTFIELD RD   |                  | SPRING          | TX    | 77373-5918 |

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| MONARCH BUILD LLC                        | 8100 NEWTON ST STE 300    |                  | OVERLAND PARK | KS    | 66204-3669 |
| MONGAN PAINTING LLC                      | 720 SLEEZER RD            | PO BOX 515       | CHEROKEE      | IA    | 51012-7247 |
| MORRISON BROS CONSTRUCTION COMPANY       | 2134 N 81ST ST            |                  | CASEYVILLE    | IL    | 62232-1604 |
| MORRISSEY CONTRACTING COMPANY INC        | PO BOX 67                 |                  | GODFREY       | IL    | 62035-0067 |
| MO'S HEATING AND AIR CONDITIONING LLC    | 11759 W 86TH TER          |                  | LENEXA        | KS    | 66214-1534 |
| MOUNT FARM DRAINAGE LLC                  | 3313 260TH ST             |                  | RIVERTON      | IA    | 51650-6002 |
| MTT CO                                   | PO BOX 161                |                  | DENISON       | IA    | 51442-0161 |
| MULTATECH ENGINEERING INC                | 2821 W 7TH ST STE 400     |                  | FORT WORTH    | TX    | 76107-8913 |
| MUNICIPAL PIPE SERVICES INC              | 1550 NE 51ST AVE          |                  | DES MOINES    | IA    | 50313-2123 |
| MUNICIPAL PIPE TOOL COMPANY LLC          | 515 5TH ST                |                  | HUDSON        | IA    | 50643-7773 |
| MURPHY EXCAVATION AND CONTRACTING LLC    | 399 E 4TH ST              |                  | AVISTON       | IL    | 62216-3834 |
| MUTH ELECTRIC INC                        | 1717 N SANBORN BLVD       |                  | MITCHELL      | SD    | 57301-1025 |
| MYLES LORENTZ INC                        | 48822 OLD RIVER BLUFF RD  |                  | SAINT PETER   | MN    | 56082-5059 |
| NAES POWER CONTRACTORS INC               | 1180 NW MAPLE ST STE 200  |                  | ISSAQAH       | WA    | 98027-8106 |
| NATIONAL BRIDGE LLC                      | 514 ANCLOTE RD            |                  | TARPON SPGS   | FL    | 34689-6701 |
| NATIONAL ROOFING AND SHEET METAL COMPANY | G4130 FLINT ASPHALT DRIVE |                  | BURTON        | MI    | 48529      |
| NATIONWIDE FENCE AND SUPPLY COMPANY      | 69951 LOWE PLANK RD       |                  | RICHMOND      | MI    | 48062-5365 |
| NATIONWIDE RETAIL SERVICES INC           | 2865 EXCHANGE BLVD        |                  | SOUTHLAKE     | TX    | 76092-9127 |
| NBMC INC                                 | PO BOX 300                |                  | GREENBRIER    | AR    | 72058-0300 |
| NEBRASKA MIDWEST CONSTRUCTION COMPANY    | PO BOX 610                |                  | NEBRASKA CITY | NE    | 68410-0610 |
| NELSON INDUSTRIAL SERVICES INC           | 6021 MELROSE LN           |                  | OKLAHOMA CITY | OK    | 73127-5527 |

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| NEUMANN COMPANY CONTRACTORS INC             | W9450 STATE ROAD 95                 |                       | MERRILLAN     | WI    | 54754-7900 |
| NEW RIVER ELECTRICAL CORPORATION            | PO BOX 70                           |                       | CLOVERDALE    | VA    | 24077-0070 |
| NEW TECH CONSTRUCTION INC                   | PO BOX 39                           |                       | NEBRASKA CITY | NE    | 68410-0039 |
| NEW WAVE POOLS & SPAS INC                   | 13312 GILES RD                      |                       | OMAHA         | NE    | 68138-3467 |
| NEXT FIBER LLC                              | 24504 W 86TH TER                    |                       | LENEXA        | KS    | 66227-3257 |
| NEXT LEVEL UTILITIES & EXCAVATING INC       | PO BOX 26                           |                       | BALDWIN CITY  | KS    | 66006-0026 |
| NITRO ROOFING AND CONSTRUCTION LLC          | 5356 SOUTHLAND RD                   |                       | NEW KNOXVILLE | OH    | 45871-9530 |
| NIVO SOLAR LLC                              | 1334 BRITMOORE RD STE 1903          |                       | HOUSTON       | TX    | 77043-4036 |
| NOBIS TECHNOLOGY LLC                        | 316 STATE HIGHWAY 21 W # A          |                       | CEDAR CREEK   | TX    | 78612-3547 |
| NOHAVA CONSTRUCTION INC                     | 51 ST ANDREWS WAY                   |                       | SIOUX CENTER  | IA    | 51250-2955 |
| NORTH AMERICAN ROOFING SERVICES LLC         | 14025 RIVEREDGE DR STE 600          |                       | TAMPA         | FL    | 33637-2088 |
| NORTH CENTRAL SERVICE INC                   | PO BOX 310                          |                       | BEMIDJI       | MN    | 56619-0310 |
| NORTH COAST CONSTRUCTION CO                 | 3525 AGRICULTURAL CENTER DR STE 607 |                       | ST AUGUSTINE  | FL    | 32092-0932 |
| NORTH COUNTRY DIRECTIONAL DRILLING LLC      | 21988 SHALLOW LAKE RD               | 21988 SHALLOW LAKE RD | WARBA         | MN    | 55793-1643 |
| NORTHERN CLEARING INC                       | 28190 STATE HIGHWAY 137             |                       | ASHLAND       | WI    | 54806-4601 |
| NORTHERN HORIZONS SOLWAY INC                | 15545 CARIBOU FOOTED DR NW          |                       | SOLWAY        | MN    | 56678-4657 |
| NORTHWEST ARKANSAS SHEET METAL INCORPORATED | 136 W KELLEY DR                     |                       | ROGERS        | AR    | 72756-9320 |
| NORTHWEST DEMOLITION AND DISMANTLING INC    | PO BOX 230819                       |                       | TIGARD        | OR    | 97281-0819 |
| NU TEC ROOFING CONTRACTORS LLC              | 5025 EMCO DR                        |                       | INDIANAPOLIS  | IN    | 46220-4846 |
| NUTRI-JECT SYSTEMS INC                      | PO BOX 398                          |                       | HUDSON        | IA    | 50643-0398 |
| NY&O CONTRACTORS INC                        | 236A 6TH ST                         |                       | BROOKLYN      | NY    | 11215-3204 |

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| OCCO LLC                               | 1785 W 160TH AVE STE 700 |                  | BROOMFIELD  | CO    | 80023-8981 |
| OLGOONIK SPECIALTY CONTRACTORS LLC     | 3201 C ST STE 700        |                  | ANCHORAGE   | AK    | 99503-3934 |
| OLYMPUS CONSTRUCTION INC               | 2506 W WASHINGTON AVE    |                  | JONESBORO   | AR    | 72401-9258 |
| OLYMPUS PAINTING CONTRACTORS INC       | 556 ANCLOTE RD           |                  | TARPON SPGS | FL    | 34689-6701 |
| OMH COMMUNICATIONS LLC                 | 2300 PARTRIDGE RD        |                  | PORT HURON  | MI    | 48060-2443 |
| ONE WAY WIRELESS CONSTRUCTION INC      | 8700 13TH AVE E          |                  | SHAKOPEE    | MN    | 55379-8806 |
| ONEALS ELECTRIC HEATING & COOLING INC  | 2700 BAUGHMAN CUTOFF RD  |                  | HARRISON    | AR    | 72601-6720 |
| OSMENT ROOFING SYSTEMS INC             | PO BOX 16927             |                  | JONESBORO   | AR    | 72403-6716 |
| OTC SERVICES INC                       | PO BOX 188               |                  | LOUISVILLE  | OH    | 44641-0188 |
| OUTDOOR SYSTEMS INC                    | 660 STATE ROUTE 158      |                  | COLUMBIA    | IL    | 62236-3232 |
| OVERHEAD CONVEYOR COMPANY              | 1330 HILTON RD           |                  | FERNDALE    | MI    | 48220-2837 |
| OZONE ROOFING INC                      | 607 S 14TH AVE           |                  | DODGE CITY  | KS    | 67801-5706 |
| P&P ARTEC INC                          | 700 CREEL DR             |                  | WOOD DALE   | IL    | 60191-2608 |
| PADGETT BUILDING & REMODELING CO       | 4200 SMELTING WORKS RD   |                  | SWANSEA     | IL    | 62226-2023 |
| PAR RESTORATION SERVICES INC           | 1934 N 81ST ST           |                  | CASEYVILLE  | IL    | 62232-1656 |
| PARK CONSTRUCTION MIDWEST INC          | 1481 81ST AVE NE         |                  | MINNEAPOLIS | MN    | 55432-1795 |
| PARK DEROCHIE COATINGS AND LININGS LLC | 11835 - 28 STREET NE     |                  | EDMONTON    | AB    | T6S 1C8    |
| PARKWAY C&A LP                         | 1000 CIVIC CIR           |                  | LEWISVILLE  | TX    | 75067-3493 |
| PATRIOT CRANE AND RIGGING LLC          | 11102 BLONDO ST STE 100  |                  | OMAHA       | NE    | 68164-3888 |
| PAULON CONSTRUCTION MANAGEMENT CORP    | PO BOX 791               |                  | MT PLEASANT | MI    | 48804-0791 |
| PAVEMENT SERVICES CORPORATION          | PO BOX 1107              |                  | EULESS      | TX    | 76039-1107 |
| PAVEWAY SYSTEMS INC                    | 114 INDIAN LAKES LN      |                  | FLORAHOME   | FL    | 32140-3614 |

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| PAYNE CONSTRUCTION SERVICES LLC         | 4401 ILLINOIS 162       |                  | GRANITE CITY | IL    | 62040      |
| PEPPER CONSTRUCTION COMPANY OF OHIO LLC | 411 LAKE ZURICH RD      |                  | BARRINGTON   | IL    | 60010-3141 |
| PERFECT PLAY FIELDS AND LINKS INC       | PO BOX 24006            |                  | BELLEVILLE   | IL    | 62223-9006 |
| PERFECTION ELECTRIC INC                 | 8333 MAPLE GROVE RD     |                  | TROY         | IL    | 62294-3219 |
| PERFORMANCE CONTRACTORS INC             | PO BOX 83630            |                  | BATON ROUGE  | LA    | 70884-3630 |
| PFUND CONSTRUCTION INC                  | 3925 BLACKBURN RD       |                  | EDWARDSVILLE | IL    | 62025-6755 |
| PHILLIPS SOUTHERN ELECTRIC CO INC       | 650 E GILBERT ST        |                  | WICHITA      | KS    | 67211-4392 |
| PHOENIX MODULAR ELEVATOR                | 4800 PHOENIX DR         |                  | MOUNT VERNON | IL    | 62864-4212 |
| PILLAR INNOVATIONS LLC                  | 92 CORPORATE DR         |                  | GRANTSVILLE  | MD    | 21536-1259 |
| PINNACLE BOILER COMPANY LLC             | PO BOX 2407             |                  | MISSION      | KS    | 66201-2407 |
| PINNACLE CONSTRUCTION OF IOWA INC       | PO BOX 368              |                  | GLENWOOD     | IA    | 51534-0368 |
| PINNACLE GRINDING & GROOVING LLC        | 13375 ROCK CROSSING DR  |                  | RENO         | NV    | 89511-5939 |
| PIPES UTILITY CONTRACTORS LLC           | 2220 FAIR RD            |                  | ABILENE      | KS    | 67410-6940 |
| PIPING CONTRACTORS OF KANSAS INC        | 4141 NW 25TH ST         |                  | TOPEKA       | KS    | 66618-3747 |
| PIPTAWIL LLC                            | 13465 MIDWAY RD STE 320 |                  | DALLAS       | TX    | 75244-5183 |
| PISHNY REAL ESTATE SERVICES LLC         | 12202 W 88TH ST         |                  | LENEXA       | KS    | 66215-4607 |
| PITRE CONSTRUCTION INC                  | 6835 TOWN HALL RD       |                  | BELLEVILLE   | IL    | 62223-8623 |
| PJ HOERR INC                            | 107 N COMMERCE PL       |                  | PEORIA       | IL    | 61604-5285 |
| PLYLERS AT YOUR SERVICE INC             | 10 CREEK ST             |                  | BROOKVILLE   | PA    | 15825-1401 |
| POLY VINYL ROOFING INC                  | 785 ELBOW CREEK RD      |                  | MOUNT VERNON | IA    | 52314-9732 |
| PORTERS COMMERCIAL REFRIGERATION INC    | 118 RIDGE DR            |                  | GREENBRIER   | AR    | 72058-9652 |
| POWER ENGINEERING SERVICES LLC          | 1608 MARGARET ST        |                  | HOUSTON      | TX    | 77093-4010 |

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| POWERHOUSE RESOURCES LLC                           | 260 TERRACE VIEW WAY     |                  | SENECA               | SC    | 29678-1274 |
| POWERSECURE INC                                    | 4068 STIRRUP CREEK DR    |                  | DURHAM               | NC    | 27703-9000 |
| PRAIRIE CENTER PLUMBING HEATING & AIR CONDITIONING | 242 N MARION ST          |                  | OLATHE               | KS    | 66061-3105 |
| PRAIRIE CONTRACTORS INC                            | 9318 GULFSTREAM RD STE C |                  | FRANKFORT            | IL    | 60423-2538 |
| PRECISION CONCRETE CUTTING OF KY LLC               | 1020 PROGRESS DR         |                  | CLARKSVILLE          | TN    | 37040-5329 |
| PRECISION INFRASTRUCTURE LLC                       | 3314 56TH ST             |                  | EAU CLAIRE           | WI    | 54703-6332 |
| PREMIER STEEL INC                                  | 3248 MARTIN LUTHER KING  |                  | ANDERSON             | IN    | 46013      |
| PRESMONT CONSTRUCTION SERVICES LLC                 | 7801 SHADY OAKS DR       |                  | NORTH RICHLAND HILLS | TX    | 76182-6737 |
| PRETEC DIRECTIONAL DRILLING LLC                    | 3314 56TH ST             |                  | EAU CLAIRE           | WI    | 54703-6332 |
| PRICE GREGORY INTERNATIONAL LLC                    | 24275 KATY FWY STE 500   |                  | KATY                 | TX    | 77494-7269 |
| PRIMARY ELECTRIC LLC                               | 5102 HWY 412B            |                  | HUNTSVILLE           | AR    | 72740      |
| PRIMORIS POWER SOLUTIONS LLC                       | 350 HIGHLAND DR STE 200  | STE 200          | LEWISVILLE           | TX    | 75067-4587 |
| PRO ALARM LLC                                      | 130 N DUNCAN ST          |                  | MARINE               | IL    | 62061      |
| PRO COMMERCIAL LLC                                 | 405 S MAIN AVE           |                  | HUXLEY               | IA    | 50124-2400 |
| PRO LECTRIC INDUSTRIAL CONTRACTORS INC             | 1400 GERRARD RD          | PO BOX 458       | LAVONIA              | GA    | 30553-2956 |
| PROFESSIONAL ENGINEERING CONSULTANTS CO            | 303 S TOPEKA ST          |                  | WICHITA              | KS    | 67202-4309 |
| PROSAFE UTILITY CONTRACTORS LLC                    | N6440 HARGRAVES RD       |                  | BURLINGTON           | WI    | 53105-2724 |
| PROSHOT CONCRETE INC                               | 4158 MUSGROVE DR         |                  | FLORENCE             | AL    | 35630-6396 |
| PROSSER WILBERT CONSTRUCTION INC                   | 13730 W 108TH ST         |                  | LENEXA               | KS    | 66215-2026 |
| PRO-X BUILDERS INC                                 | PO BOX 91310             |                  | SIOUX FALLS          | SD    | 57109-1310 |
| PRS KANSAS LLC                                     | 5809 MERRIAM DR          |                  | MERRIAM              | KS    | 66203-2525 |
| PWI CONSTRUCTION INC                               | 3903 W MARTIN AVE        |                  | LAS VEGAS            | NV    | 89118-4500 |

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| PYRAMID ETC COMPANIES LLC                   | 275 N FRANKLIN TPKE     |                  | RAMSEY        | NJ    | 07446-2812 |
| QCI THERMAL SYSTEMS INC                     | PO BOX 2432             |                  | DAVENPORT     | IA    | 52809-2432 |
| QUALITY STRIPING INC                        | 1704 E EUCLID AVE       |                  | DES MOINES    | IA    | 50313-4730 |
| QUICK ELECTRICAL CONTRACTORS INC.           | 445 CARTER ST           | PO BOX 49        | FAIRVIEW      | IL    | 61432-5021 |
| R & P CONTRACTING INC                       | 5101 COTTMAN AVE SIDE A |                  | PHILADELPHIA  | PA    | 19135-1543 |
| R L BRINK CORPORATION                       | 4400 N 24TH ST          |                  | QUINCY        | IL    | 62305-7775 |
| RABA KISTNER INC                            | 12821 W GOLDEN LN       |                  | SAN ANTONIO   | TX    | 78249-2298 |
| RABINE PAVING LLC                           | 900 NATIONAL PKWY       |                  | SCHAUMBURG    | IL    | 60173-5904 |
| RAGNAR BENSON LLC                           | PO BOX 2071             |                  | LOVES PARK    | IL    | 61130-0071 |
| RAM CONSTRUCTION SERVICES OF MICHIGAN INC   | 13800 ECKLES RD         |                  | LIVONIA       | MI    | 48150-1041 |
| RAM ELECTRIC CO. LLC                        | 1709 ELM ST             |                  | FLOWOOD       | MS    | 39232      |
| RAM GENERAL CONTRACTING AND DEVELOPMENT INC | 204 E TERRACE DR UNIT B |                  | PLANT CITY    | FL    | 33563-9028 |
| RAMON GARCIA CONSTRUCTION LLC               | PO BOX 12743            |                  | KANSAS CITY   | KS    | 66112-0743 |
| RANGER SE LLC                               | 1000 S MAIN ST          | STE 150          | GRAPEVINE     | TX    | 76051      |
| RAVENVOLT INC.                              | 2715 RONALD REAGAN BLVD | SUITE 100        | CUMMING       | GA    | 30041      |
| RAWLINGS INDUSTRIAL INC                     | PO BOX 1438             |                  | HAMILTON      | MT    | 59840-1438 |
| RB12 CONSTRUCTION LLC                       | 12867 LAMAR AVE         |                  | LEAWOOD       | KS    | 66209-3239 |
| RE CON COMPANY A TEXAS CORP                 | 12 NE 52ND ST           |                  | OKLAHOMA CITY | OK    | 73105-1888 |
| REDNOUR STEEL ERECTORS INC                  | PO BOX 116              |                  | CUTLER        | IL    | 62238-0116 |
| REED DILLON & ASSOCIATES LLC                | 1213 E 24TH ST          |                  | LAWRENCE      | KS    | 66046-5128 |
| REINER CONSTRUCTION CORP                    | 2164 CITYGATE DR        |                  | COLUMBUS      | OH    | 43219-3556 |
| REM DIRECTIONAL INC                         | PO BOX 96               |                  | BOLIGEE       | AL    | 35443-0096 |

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| REM PIPELINE SERVICES INC                | PO BOX 17                     |                  | BOLIGEE      | AL    | 35443-0017 |
| REMBCO GEOTECHNICAL CONTRACTORS INC      | PO BOX 23009                  |                  | KNOXVILLE    | TN    | 37933-1009 |
| RENEW ENERGY ELECTRICAL LLC              | 2520 E RIVER RIDGE PL STE 100 |                  | SIOUX FALLS  | SD    | 57103-3906 |
| RENFROW BROTHERS INC                     | 855 GOSSETT RD                |                  | SPARTANBURG  | SC    | 29307-4307 |
| RENU OF TEXAS INC                        | 3200 EARHART DR               |                  | CARROLLTON   | TX    | 75006-5024 |
| RES SYSTEM 3                             | 1610 ARDEN WAY STE 280        |                  | SACRAMENTO   | CA    | 95815-4050 |
| RESA SERVICE LLC                         | 8723 FALLBROOK DR             |                  | HOUSTON      | TX    | 77064-3318 |
| RETAIL CONSTRUCTION SERVICES INC         | 11343 39TH ST N               |                  | LAKE ELMO    | MN    | 55042-9586 |
| RFB CONSTRUCTION CO INC                  | 565 E 520TH AVE               |                  | PITTSBURG    | KS    | 66762-6829 |
| RGC GLASS INC.                           | 2213 HAWKS LNDG               |                  | FAYETTEVILLE | AR    | 72704-5294 |
| RICH PLUMBING INC                        | 702 N WALNUT ST               | P O BOX 407      | WAPELLA      | IL    | 61777-0407 |
| RICHARD BAUGHN CONSTRUCTION INC          | 5274 HIGHWAY 226              |                  | JONESBORO    | AR    | 72404-1008 |
| RICHARD GOETTLE INC                      | 12071 HAMILTON AVE            |                  | CINCINNATI   | OH    | 45231-1032 |
| RICHARD NACHBAR PLUMBING INC             | 9053 COTTONWOOD CANYON PL     |                  | LENEXA       | KS    | 66219-8174 |
| RICHARD TURNER CONSTRUCTION COMPANY INC  | 10425 COGDILL RD STE 100      |                  | KNOXVILLE    | TN    | 37932-3391 |
| RICKY JONES                              | 1797 N 4TH AVE                |                  | PIGGOTT      | AR    | 72454-8242 |
| RIGHT WAY FACILITY SERVICES OF TEXAS LLC | 503 MERCEDES ST STE B         |                  | BENBROOK     | TX    | 76126-2572 |
| RIGHT WAY TRAFFIC CONTROL INC            | 8 INDUSTRIAL DR               |                  | FREEBURG     | IL    | 62243-3229 |
| RIGID ELECTRICAL SERVICES LLC            | 2812 CLASSEN BLVD             |                  | NORMAN       | OK    | 73071-4059 |
| RIVER CITIES ENGINEERING INC             | 323 RESEARCH PKWY             |                  | DAVENPORT    | IA    | 52806-7343 |
| RJ MARTIN NATIONAL CONTRACTING INC       | 22841 AURORA RD               |                  | BEDFORD HTS  | OH    | 44146-1244 |
| RL BISHOP & ASSOCIATES INC               | PO BOX 703                    |                  | MANCHESTER   | GA    | 31816-0703 |

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| ROCK REMOVAL RESOURCES LLC                      | 1125 N MILITARY AVE           |                  | GREEN BAY    | WI    | 54303-4413 |
| ROCK SUPREMACY LLC                              | 65147 N HIGHWAY 97            |                  | BEND         | OR    | 97701-8029 |
| ROCKFORD CONSTRUCTION CO                        | 601 1ST ST NW                 |                  | GRAND RAPIDS | MI    | 49504-5517 |
| ROCKWATER DRILLING COMPANY                      | 2031 MILLERSBURG RD           |                  | WOOSTER      | OH    | 44691-9460 |
| RODZINA DEVELOPMENT LLC                         | 1111 FM 517 RD                |                  | ALVIN        | TX    | 77511-1876 |
| ROLLING PLAINS CONSTRUCTION INC                 | 12331 PEORIA ST               |                  | HENDERSON    | CO    | 80640-9650 |
| RON WEERS CONSTRUCTION INC                      | 20765 FOSTER CT               |                  | BUCYRUS      | KS    | 66013-9080 |
| ROOFMASTERS ROOFING AND SHEET METAL INC         | PO BOX 664                    |                  | HAYS         | KS    | 67601-0664 |
| ROTATING EQUIPMENT REPAIR INC                   | W248N5550 EXECUTIVE DR        |                  | SUSSEX       | WI    | 53089-4380 |
| ROYAL OVERHEAD DOOR INC                         | PO BOX 386                    |                  | MABELVALE    | AR    | 72103-0386 |
| ROYAL ROOFING COMPANY INC                       | 2445 BROWN RD                 |                  | ORION        | MI    | 48359-1810 |
| ROYALTY ROOFING USA LLC                         | 2099 E TIPTON ST              |                  | SEYMOUR      | IN    | 47274-3567 |
| RP COATINGS INC                                 | 330 BARGRAVES BLVD            |                  | TROY         | IL    | 62294-2304 |
| RWE MANAGEMENT COMPANY                          | 27W430 WARRENVILLE RD         |                  | WARRENVILLE  | IL    | 60555-3909 |
| RWS ENTERPRISES LLC                             | 8725 ROSEHILL RD STE 119      |                  | LENEXA       | KS    | 66215-4611 |
| RYAN INCORPORATED CENTRAL                       | PO BOX 206                    |                  | JANESVILLE   | WI    | 53547-0206 |
| RYCON CONSTRUCTION INC                          | 2501 SMALLMAN ST STE 100      |                  | PITTSBURGH   | PA    | 15222-4694 |
| S & W CONSTRUCTION LLC OF IOWA                  | 109 MOODY DR                  |                  | HAMBURG      | IA    | 51640-1803 |
| S H KITE COMPANY LLC                            | 3409 N 155TH ST               |                  | BASEHOR      | KS    | 66007-9519 |
| SACHSE CONSTRUCTION AND DEVELOPMENT COMPANY LLC | 3663 WOODWARD AVE             | SUITE 500        | DETROIT      | MI    | 48201-2400 |
| SAF MISSOURI INC                                | 130 E VORIS ST STE A          |                  | AKRON        | OH    | 44311-1536 |
| SAFE HAVEN DEFENSE ARIZONA LLC                  | 3120 W CAREFREE HWY STE 1-543 |                  | PHOENIX      | AZ    | 85086-3276 |

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| SAFFO CONTRACTORS INC            | PO BOX 7035                 |                  | WILMINGTON       | NC    | 28406-7035 |
| SALISBURY MOORE INC              | 8320 LITCHFORD RD STE 124   |                  | RALEIGH          | NC    | 27615-3860 |
| SAMRON MIDWEST CONTRACTING INC   | PO BOX 1555                 |                  | MURPHYSBORO      | IL    | 62966-5055 |
| SAPPHIRE COMPANIES LLC           | 790 HOWARD AVE STE A        |                  | BILOXI           | MS    | 39530-3822 |
| SASCO                            | 2750 MOORE AVE              |                  | FULLERTON        | CA    | 92833-2563 |
| SATELLITE SERVICES INC           | 309 S FRONT ST              |                  | MARQUETTE        | MI    | 49855-4600 |
| SCALE FOUNDATIONS INC            | 2948 W 300 S                |                  | BRINGHURST       | IN    | 46913-9599 |
| SCHEIDT & BACHMANN USA INC       | 1001 PAWTUCKET BLVD         |                  | LOWELL           | MA    | 01854-1040 |
| SCHLEIS FLOOR COVERING INC       | 998 GLORY RD                |                  | GREEN BAY        | WI    | 54304-5631 |
| SCHOENFELDER RENOVATIONS INC     | 7808 CREEKRIDGE CIR STE 310 |                  | MINNEAPOLIS      | MN    | 55439-2616 |
| SCHREIBER CORPORATION            | 29945 BECK RD               |                  | WIXOM            | MI    | 48393-2836 |
| SCHULTZ BROTHERS ELECTRIC CO INC | 3030 S 24TH ST # A          |                  | KANSAS CITY      | KS    | 66106-4707 |
| SCHUMACHER ELEVATOR COMPANY      | 1 SCHUMACHER WAY            |                  | DENVER           | IA    | 50622-7729 |
| SCHWICKERTS TECTA AMERICA LLC    | 330 POPLAR ST               |                  | MANKATO          | MN    | 56001-2312 |
| SCM LLC                          | PO BOX 1073                 |                  | RICHMOND         | IN    | 47375-1073 |
| SCOTT ANDREWS INC                | PO BOX 661                  |                  | WINNSBORO        | TX    | 75494-0661 |
| SDB CONTRACTING SERVICES INC     | 1001 S EDWARD DR            |                  | TEMPE            | AZ    | 85281-5223 |
| SEATON CONSTRUCTION GROUP LLC    | 4506 W HARRY ST             |                  | WICHITA          | KS    | 67209-2736 |
| SEELE INC                        | 4301 22ND ST                |                  | LONG ISLAND CITY | NY    | 11101-5029 |
| SEITHER & CHERRY QUAD CITIES INC | 611 E 59TH ST               |                  | DAVENPORT        | IA    | 52807-2626 |
| SEK HEAT & AIR INC               | 422 W ATKINSON RD           |                  | PITTSBURG        | KS    | 66762-8634 |
| SELECT COATINGS LLC              | 9420 CARTER DR              |                  | OVERLAND PARK    | KS    | 66212-4823 |

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| SEMINOLE EQUIPMENT INC                   | 204 TARPON INDUSTRIAL DR      |                  | TARPON SPGS     | FL    | 34689-6801 |
| SERVICE & INDUSTRIAL REPAIR INC          | 18097 VAIL RD                 |                  | PLEASANTON      | KS    | 66075-7503 |
| SFA COMMUNICATION INC                    | 22 SE 7TH AVE                 |                  | DEERFIELD BEACH | FL    | 33441-4021 |
| SG CONSTRUCTION SERVICES LLC             | 111 E COURT ST STE 1A         |                  | FLINT           | MI    | 48502-1649 |
| SHEET PILING SERVICES LLC                | 6872 STATE HIGHWAY 66         |                  | CUSTER          | WI    | 54423-9608 |
| SHELLEY ELECTRIC INC                     | 3619 W 29TH ST S              |                  | WICHITA         | KS    | 67217-1003 |
| SHELTON & SHELTON LLC DBA RELIABLE GLASS | PO BOX 729                    |                  | PADUCAH         | KY    | 42002-0729 |
| SHERMCO INDUSTRIES INC                   | PO BOX 540545                 |                  | DALLAS          | TX    | 75354-0545 |
| SHORES BUILDERS INC                      | 2222 E MCCORD ST              |                  | CENTRALIA       | IL    | 62801-6731 |
| SHORTRIDGE CONSTRUCTION COMPANY INC      | 3908 N 24TH ST                |                  | QUINCY          | IL    | 62305-9628 |
| SIGN CRAFTERS INC                        | 1508 STRINGTOWN RD            |                  | EVANSVILLE      | IN    | 47711-4593 |
| SIGNATURE SIGN & LIGHTING LLC            | 825 S KOSCIUSKO ST            |                  | JACKSONVILLE    | IL    | 62650-2839 |
| SIGNET FARM SERVICES LLC                 | 166 HARGRAVES DR STE C400-240 |                  | AUSTIN          | TX    | 78737-4796 |
| SILVA PAIVA CORP                         | 11383 62NS LN N               |                  | WEST PALM BEACH | FL    | 33412      |
| SILVERBACK PRODUCTIONS LLC               | 264 E BLACKWELL ST            |                  | DOVER           | NJ    | 07801-4104 |
| SIMON ROOFING AND SHEET METAL CORP       | 70 KARAGO AVE                 |                  | YOUNGSTOWN      | OH    | 44512-5949 |
| SINGLE PLY SYSTEMS INC                   | 10951 NESBITT AVE S           |                  | MINNEAPOLIS     | MN    | 55437-3125 |
| SKILL ELECTRIC LLC                       | 1236 BAYOU ST                 |                  | VINCENNES       | IN    | 47591-4443 |
| SKYTOP TOWERS INC                        | 13503 W US HIGHWAY 34         |                  | MALCOLM         | NE    | 68402-9783 |
| SLAYDEN GLASS INC                        | 239 N OLD SAINT LOUIS RD      |                  | WOOD RIVER      | IL    | 62095-1437 |
| SLOAN SECURITY GROUP INC                 | 6828 W MELROSE ST             |                  | BOISE           | ID    | 83709-1393 |
| SMART ENVIRONMENTAL SERVICES LLC         | 4440 OLIVER ST                |                  | KANSAS CITY     | KS    | 66106-3763 |

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| SMITH TANK & STEEL INC                  | PO BOX 2370               |                  | GONZALES     | LA    | 70707-2370 |
| SNELL NORTHCUTT ELECTRIC INC            | P O BOX 24601             |                  | LITTLE ROCK  | AR    | 72221      |
| SNELSON COMPANIES INC                   | 350 HIGHLAND DR STE 200   |                  | LEWISVILLE   | TX    | 75067-4587 |
| SNI COMPANIES                           | 7751 BELFORT PKWY STE 150 |                  | JACKSONVILLE | FL    | 32256-6947 |
| SOLID PLATFORMS INC                     | 6610 MELTON RD            |                  | PORTAGE      | IN    | 46368-1236 |
| SOUTH INDUSTRIES INC                    | 910 TWIN BUTTE RD         |                  | MENAN        | ID    | 83434-5116 |
| SOUTHEAST POWER CORPORATION             | 1688 W HIBISCUS BLVD      |                  | MELBOURNE    | FL    | 32901-2631 |
| SOUTHERN MARINE CONSTRUCTION CO         | PO BOX 4539               |                  | CHATTANOOGA  | TN    | 37405-0539 |
| SOUTHERN ROAD & BRIDGE LLC              | 2997 ALT 19 STE B         |                  | PALM HARBOR  | FL    | 34683-1909 |
| SOUTHFORK CONSTRUCTION INC              | 144 GREENLAWN DR          |                  | SAN ANTONIO  | TX    | 78201-2809 |
| SOUTHWIND CONSTRUCTION SERVICES LLC     | 1701 S STATE ST           |                  | EDMOND       | OK    | 73013-3633 |
| SOVEREIGN STAFFING GROUP INC            | 1041 E 151ST ST           |                  | OLATHE       | KS    | 66062-3417 |
| SOWARDS GLASS INC                       | 2600 NW TOPEKA BLVD STE C |                  | TOPEKA       | KS    | 66617-1160 |
| SPARROW PLUMBING & HEATING INC          | 313 DELAWARE ST           |                  | QUINCY       | IL    | 62301-4823 |
| SPECIALIZED CONSTRUCTION & UTILITY CORP | 206 MULBERRY ST           |                  | COLETA       | IL    | 61081-5116 |
| SPECTRA TECH LLC                        | 10340 PLEASANT ST STE 100 |                  | NOBLESVILLE  | IN    | 46060-3947 |
| SQUARE B LLC                            | PO BOX 81847              |                  | LINCOLN      | NE    | 68501-1847 |
| SS HOME IMPROVEMENTS LLC                | PO BOX 1264               |                  | PITTSBURG    | KS    | 66762-1264 |
| SSI INCORPORATED OF NW ARKANSAS         | 2817 YUMA ST              |                  | FORT SMITH   | AR    | 72901-8778 |
| ST COTTER TURBINE SERVICES INC          | 2135 196TH ST E           |                  | CLEARWATER   | MN    | 55320-1660 |
| STANDARD ELECTRIC TOO LLC               | 2006 E PRAIRIE CIR        |                  | OLATHE       | KS    | 66062-1268 |

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| STANFIELD ROOFING INC                | 580 N HAVERHILL RD        |                  | EL DORADO        | KS    | 67042-3187 |
| STEEL REBAR MANUFACTURING LLC        | 4926 CHURCH RD            |                  | CENTREVILLE      | IL    | 62207-1392 |
| STEPHEN MCFALLS ELECTRIC LLC         | 809 LINWOOD DR            |                  | PARAGOULD        | AR    | 72450-4853 |
| STEPHENS & SMITH CONSTRUCTION CO INC | 1542 S 1ST ST             |                  | LINCOLN          | NE    | 68502-1999 |
| STETNER ELECTRIC INC                 | PO BOX 1750               |                  | QUINCY           | WA    | 98848-2156 |
| STEVE BEAM CONSTRUCTION INC          | 7201 S 28TH ST            |                  | FORT SMITH       | AR    | 72908-7810 |
| STEVE HOEGGER & ASSOCIATES INC       | 2630 N HIGHWAY 78         |                  | WYLIE            | TX    | 75098-6055 |
| STILL CONTRACTORS LLC                | 15740 S MAHAFFIE ST       |                  | OLATHE           | KS    | 66062-4038 |
| STONEBRIDGE CONSTRUCTION LLC         | PO BOX 16787              |                  | JONESBORO        | AR    | 72403-6712 |
| STORAGE ERECTORS INC                 | 2231 VALPARAISO BLVD      |                  | NORTH FORT MYERS | FL    | 33917-6791 |
| STORM TECHNICAL SERVICES CO          | PO Box 429                |                  | Albemarle        | NC    | 28002-0429 |
| STORY CONSTRUCTION CO                | 2810 WAKEFIELD CIR        |                  | AMES             | IA    | 50010-7725 |
| STORY CONSTRUCTION COMPANY LLC       | 901 HARPETH VALLEY PL     |                  | NASHVILLE        | TN    | 37221-1141 |
| STRINGER CONSTRUCTION COMPANY INC    | 6141 LUCILLE LN           |                  | SHAWNEE          | KS    | 66203-2609 |
| STRUCTURAL GROUP INC                 | 10150 OLD COLUMBIA RD     |                  | COLUMBIA         | MD    | 21046-1274 |
| STRUCTURES UNLIMITED OF NH INC       | PO BOX 4105               |                  | MANCHESTER       | NH    | 03108-4105 |
| STUTZ EXCAVATING INC.                | 3837 FOSTERBURG RD        |                  | ALTON            | IL    | 62002-7323 |
| SUBSTATIONS INC                      | PO BOX 1945               |                  | COLSTRIP         | MT    | 59323-1945 |
| SUMMIT HEARTLAND LLC                 | 3823 W 1800 S             |                  | REMINGTON        | IN    | 47977-8831 |
| SUNLAND CONSTRUCTION INC             | PO BOX 1087               |                  | EUNICE           | LA    | 70535-1087 |
| SUNRISE ELEVATOR INC                 | 3839 N CYPRESS DR STE 700 |                  | WICHITA          | KS    | 67226-2917 |
| SUPER SKY PRODUCTS ENTERPRISES LLC   | 10301 N ENTERPRISE DR     |                  | MEQUON           | WI    | 53092-4639 |

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| SUPERIOR INDUSTRIAL MECHANICAL INC    | 623 W 7TH ST                 |                  | SIOUX CITY    | IA    | 51103-4339 |
| SUPREME ELECTRIC CO                   | PO BOX 114                   |                  | QUINCY        | IL    | 62306-0114 |
| SURF PREP INC                         | PO BOX 470                   |                  | PEWAUKEE      | WI    | 53072-0470 |
| SURFACE AMERICA INC                   | PO BOX 157                   |                  | WILLIAMSVILLE | NY    | 14231-0157 |
| SURFACE PREPARATION TECHNOLOGIES LLC  | PO BOX 834                   |                  | NEW KINGSTOWN | PA    | 17072-0834 |
| SURVEYS LAND AND CONSTRUCTION INC     | PO BOX 29                    |                  | LINDSBORG     | KS    | 67456-0029 |
| SUTTERFIELD ELECTRIC CONTRACTING CORP | 339 N OLD SAINT LOUIS RD     |                  | WOOD RIVER    | IL    | 62095-1165 |
| SWIFT ROOFING INC                     | PO BOX 1102                  |                  | MURRAY        | KY    | 42071-0020 |
| SYSTEMS PLANT SERVICES INC            | 214 N WASHINGTON AVE STE 700 |                  | EL DORADO     | AR    | 71730-5659 |
| T & G CONSTRUCTION OF STILLWATER INC  | 5865 NEAL AVE N # 259        |                  | STILLWATER    | MN    | 55082-2177 |
| TAILORED FOAM INCORPORATED            | PO BOX 4186                  |                  | HICKORY       | NC    | 28603-4186 |
| TAILORED ROOFING & REMODELING INC     | 2313 N ZOO PARK CIR          |                  | WICHITA       | KS    | 67205-6500 |
| TANCO ENGINEERING INC                 | 1400 TAURUS CT               |                  | LOVELAND      | CO    | 80537-3297 |
| TANK BUILDERS INC                     | PO BOX 187                   |                  | HASLET        | TX    | 76052-0187 |
| TANK FOUNDATIONS INC                  | 3035 SIOUX AVE               |                  | FOREST CITY   | IA    | 50436-8039 |
| TANK INDUSTRY CONSULTANTS INC         | 7740 W NEW YORK ST           |                  | INDIANAPOLIS  | IN    | 46214-4939 |
| TARGET CONTRACTORS LLC OF MISSOURI    | 9797 HIGHWAY 78              |                  | LADSON        | SC    | 29456-3801 |
| TATCO CONSTRUCTION LLC                | 417 S COLTRANE RD            |                  | EDMOND        | OK    | 73034-6733 |
| TAYLOR BROS CONSTRUCTION CO INC       | 4555 MIDDLE RD               |                  | COLUMBUS      | IN    | 47203-1834 |
| TDR CONTRACTORS INC                   | PO BOX 1003                  |                  | GILMER        | TX    | 75644-1003 |
| TDS CONSTRUCTION 1 INC                | 4239 63RD ST W               |                  | BRADENTON     | FL    | 34209-6647 |
| TDW US INC                            | 6120 S YALE AVE STE 1700     |                  | TULSA         | OK    | 74136-4235 |

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| TELLUS LLC                               | 829 NANCY LYNN LN          |                  | ARNOLD        | MD    | 21012-3025 |
| TEN TWO INC                              | 8206 ANTIOCH RD            |                  | OVERLAND PARK | KS    | 66204-3536 |
| TERRAZZO USA AND ASSOCIATES INC          | 9532 TOWRY CT              |                  | OKLAHOMA CITY | OK    | 73165-4629 |
| TERWISSCHA CONSTRUCTION INC              | 1550 WILLMAR AVE SE        |                  | WILLMAR       | MN    | 56201-4762 |
| TEXAS ALLIANCE GROUP INC                 | 11288 WEST RD              |                  | HOUSTON       | TX    | 77065-4493 |
| TEXOMA INDUSTRIAL INSULATION ASSOCIATION | PO BOX 497                 |                  | DENISON       | TX    | 75021-0497 |
| TFR ENTERPRISES INC                      | 601 LEANDER DR             |                  | LEANDER       | TX    | 78641-2026 |
| THE BUCHANAN CONTRACTING GROUP LLC       | PO BOX 8502                |                  | ALEXANDRIA    | VA    | 22306-8502 |
| THE DRILLER LLC                          | 5125 E UNIVERSITY AVE      |                  | PLEASANT HILL | IA    | 50327-7007 |
| THE FISHEL COMPANY                       | 1366 DUBLIN RD             |                  | COLUMBUS      | OH    | 43215-1093 |
| THE FLEMING CONSTRUCTION GROUP LLC       | 5405 S 125TH EAST AVE      |                  | TULSA         | OK    | 74146-6214 |
| THE FRED CHRISTEN & SONS COMPANY         | PO BOX 547                 |                  | TOLEDO        | OH    | 43697-0547 |
| THE HANSEN COMPANY INC                   | 5665 GREENDALE RD STE A    |                  | JOHNSTON      | IA    | 50131-1592 |
| THE KILIAN CORPORATION                   | PO BOX A                   |                  | MASCOUTAH     | IL    | 62258-0187 |
| THE MAXIS GROUP INC                      | 8225 E DEL CAMINO DR # 100 |                  | SCOTTSDALE    | AZ    | 85258-2330 |
| THE MIGUES DELOACH COMPANY LLC           | 2712 DAVIS DR              |                  | PINEVILLE     | LA    | 71360-5750 |
| THE OUTDOOR LIGHTS INC                   | 3335 HUTCHINSON RD STE A   |                  | CUMMING       | GA    | 30040-9033 |
| THE POOL COMPANY INC                     | 2332 JEFFERSON AVE         |                  | TACOMA        | WA    | 98402-1405 |
| THE RIVERSIDE GROUP INC                  | 13238 S PEORIA AVE         |                  | BIXBY         | OK    | 74008-4846 |
| THE ROBINS & MORTON GROUP                | 400 SHADES CREEK PKWY      |                  | BIRMINGHAM    | AL    | 35209-4454 |
| THE RYAN GROUP INC                       | 10955 160TH ST             |                  | DAVENPORT     | IA    | 52804-9166 |

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| Contractor Name                                   | Street Address          | Street Address 2 | City          | State | Zip Code   |
|---|-------------------------|------------------|---------------|-------|------------|
| THE TREZZ GROUP LLC                               | 1423 FUNDERBURG DR      |                  | MONTICELLO    | GA    | 31064-6820 |
| THERMAL CONSTRUCTION COMPANY LLC                  | PO BOX 637              |                  | REEDSBURG     | WI    | 53959-0637 |
| THERMODYNE COMMERCIAL CLIMATE CONTROL SPECIALISTS | 300 W MONROE ST         |                  | BELLEVILLE    | IL    | 62220-2466 |
| THIELSCH ENGINEERING INC                          | 195 FRANCES AVE         |                  | CRANSTON      | RI    | 02910-2211 |
| THOMAS GRACE CONSTRUCTION INC                     | 5605 MEMORIAL AVE N     |                  | STILLWATER    | MN    | 55082-1092 |
| THOMPSON ELECTRIC COMPANY OF OMAHA                | 3505 S 61ST AVENUE CIR  |                  | OMAHA         | NE    | 68106-4306 |
| THOMPSON THRIFT CONSTRUCTION INC                  | 901 WABASH AVE STE 300  |                  | TERRE HAUTE   | IN    | 47807-3233 |
| THREECORE LLC                                     | 3601 RIGBY RD STE 300   |                  | MIAMISBURG    | OH    | 45342-5047 |
| THUNDER VOLTS ELECTRIC LLC                        | 4550 WASMAN RD          |                  | ROXANA        | IL    | 62084-2726 |
| TIMBERLAB A DELAWARE CORPORATION                  | 2001 CLAYTON RD FL 77TH |                  | CONCORD       | CA    | 94520-2405 |
| TINDALL CONTRACTOR INC                            | 5240 NAMEOKI RD         |                  | PONTOON BEACH | IL    | 62040-2656 |
| TMG CONSTRUCTION MANAGEMENT INC                   | 15420 ENDEAVOR DR       |                  | NOBLESVILLE   | IN    | 46060-4921 |
| TMI COATINGS INC                                  | 3291 TERMINAL DR        |                  | EAGAN         | MN    | 55121-1610 |
| TOMS TUCKPOINTING LLC                             | 202 W BROADWAY ST       |                  | POCAHONTAS    | AR    | 72455-3419 |
| TOP LINE HANDS LLC                                | 15382 SANGAMAW RD       |                  | DILLSBORO     | IN    | 47018-9191 |
| TOTAL CONSTRUCTION SOLUTIONS CO                   | 7630 LOUIS RICH CT      |                  | DAVENPORT     | IA    | 52804-2269 |
| TOTAL ELECTRIC CONTRACTORS INC                    | PO BOX 13247            |                  | EDWARDSVILLE  | KS    | 66113-0247 |
| TOTAL MECHANICAL INC                              | 420 BROADWAY AVE        |                  | ST PAUL PARK  | MN    | 55071-1514 |
| TOUCH UP PLUS                                     | 14703 RANZ RD           |                  | AVISTON       | IL    | 62216-3831 |
| TOURNEAR ROOFING CO                               | 2605 SPRING LAKE RD     |                  | QUINCY        | IL    | 62305-0523 |
| TOWER TECHNOLOGIES GROUP LLC                      | PO BOX 266              |                  | EDGERTON      | WI    | 53534-0266 |
| TRAC WORK INC                                     | PO BOX 550              |                  | ENNIS         | TX    | 75120-0550 |

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## Construction Transient Employer Listing

| Contractor Name                      | Street Address             | Street Address 2 | City         | State | Zip Code   |
|--------------------------------------|----------------------------|------------------|--------------|-------|------------|
| TRADEBE ENVIRONMENTAL SERVICES LLC   | 234 HOBART ST STE 1        |                  | MERIDEN      | CT    | 06450-4380 |
| TRAFFIC AND PARKING CONTROL CO. INC. | 5100 W BROWN DEER RD       |                  | BROWN DEER   | WI    | 53223-2322 |
| TRANSFLUID SERVICES INC              | 113 ARCHIMEDES ST          |                  | NEW GLASGOW  | NS    | B2H 2T3    |
| TRI CITY ELECTRIC COMPANY OF IOWA    | 6225 N BRADY ST            |                  | DAVENPORT    | IA    | 52806-0002 |
| TRI COUNTY WELDING & FABRICATION     | PO BOX 137                 |                  | ARTHUR       | IL    | 61911-0137 |
| TRI NORTH BUILDERS INC               | PO BOX 259568              |                  | MADISON      | WI    | 53725-9568 |
| TRI STATE CONCRETE CORRECTION CO     | 3215 CORONA RD             |                  | QUINCY       | IL    | 62305-8131 |
| TROST PLASTICS INC                   | 8610 HANOVER INDUSTRIAL DR |                  | COLUMBIA     | IL    | 62236-4632 |
| TRS RANGE SERVICES LLC               | PO BOX 1697                |                  | EAGLE        | ID    | 83616-9105 |
| TUFF WRAP INSTALLATIONS INC          | 2080 DETWILER RD STE 2     |                  | HARLEYSVILLE | PA    | 19438-2911 |
| TULSA MULTIFAMILY PLUMBING LLC       | PO BOX 33198               |                  | TULSA        | OK    | 74153-1198 |
| TURF DESIGN INC                      | PO BOX 860303              |                  | SHAWNEE      | KS    | 66286-0303 |
| TUTTLE AAG LLC                       | 110 PAGE ST                |                  | FRIEND       | NE    | 68359-1147 |
| TWC CONCRETE LLC                     | 900 N GARVER RD            |                  | MONROE       | OH    | 45050-1241 |
| TWIN CITY TILE AND MARBLE LLC        | 4643 ANDERSON DR           |                  | EAU CLAIRE   | WI    | 54703-0587 |
| TYROLT INCORPORATED DELAWARE         | 724 N MERCER ST            |                  | DECATUR      | IL    | 62522-1699 |
| U S ELECTRICAL CONSTRUCTION CO INC   | 79 S MAIN ST               |                  | MULLICA HILL | NJ    | 08062-9711 |
| U S INSPECTION & CONSULTING LLC      | 2810 S 24TH STREET STE 119 |                  | PHOENIX      | AZ    | 85034      |
| ULTIMATE THERMAL INC                 | PO BOX 34818               |                  | OMAHA        | NE    | 68134-0818 |
| UNITED CONVEYOR CORPORATION          | 2100 NORMAN DR             |                  | WAUKEGAN     | IL    | 60085-6753 |
| UNITED GOLF LLC                      | 2108 N 129TH EAST AVE      |                  | TULSA        | OK    | 74116-1729 |
| UNITED INK ENTERPRISES LTD           | 5901 COOL SPORTS RD        |                  | BELLEVILLE   | IL    | 62223-6848 |

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| Contractor Name                                    | Street Address             | Street Address 2 | City         | State | Zip Code   |
|--|----------------------------|------------------|--------------|-------|------------|
| UNITED PIPING INC                                  | 4510 AIRPORT RD            |                  | DULUTH       | MN    | 55811-1523 |
| UNITED STATES CONSTRUCTION LLC                     | 5845 HORTON ST STE 203     |                  | MISSION      | KS    | 66202-2610 |
| UNITED STEEL ERECTORS CORPORATION                  | 800 PARK DR                |                  | ATLANTIC     | IA    | 50022-1953 |
| UNIVERSAL COMMUNICATIONS LLC                       | 1905 E 123RD ST            |                  | OLATHE       | KS    | 66061-5887 |
| UNIVERSAL ELECTRICAL SERVICE COMPANY INC           | 737 HAGEY CENTER DR UNIT B |                  | SOUDEERTON   | PA    | 18964-2404 |
| UNIVERSAL WALL SYSTEMS INC                         | 4400 DONKERS CT SE         |                  | GRAND RAPIDS | MI    | 49512-4054 |
| URETEK USA INC                                     | PO BOX 1929                |                  | TOMBALL      | TX    | 77377-1929 |
| USC LLC  | 2320 124TH RD              |                  | SABETHA      | KS    | 66534-9459 |
| UTILITY ENERGY SYSTEMS LLC                         | 15575 190TH AVE NW         |                  | ELK RIVER    | MN    | 55330-4900 |
| VAUGHN ELECTRIC CO INC                             | 313 E FLORIDA AVE          |                  | UNION CITY   | TN    | 38261-3957 |
| VCC LLC  | PO BOX 2558                |                  | LITTLE ROCK  | AR    | 72203-2558 |
| VECTOR CONSTRUCTION INC                            | 2504 MAIN AVE W            |                  | WEST FARGO   | ND    | 58078-1310 |
| VERSATYLE BUILDERS SVC LLC                         | 1100 NEW DALLAS HWY # B    |                  | WACO         | TX    | 76705-2709 |
| VIACON INC   | 70 BANKS RD                |                  | STOCKBRIDGE  | GA    | 30281-4362 |
| VICS CRANE AND HEAVY HAUL INC                      | 3000 145TH ST E            |                  | ROSEMOUNT    | MN    | 55068-5916 |
| VIKING ERECTORS CORP                               | PO BOX 1336                |                  | MC MURRAY    | PA    | 15317-4336 |
| VIRGINIA TRANSFORMER CORP                          | 220 GLADE VIEW DR NE       |                  | ROANOKE      | VA    | 24012-6470 |
| VISION INDUSTRIAL SERVICES LLC                     | 1451 HIGHWAY 12            |                  | DEQUINCY     | LA    | 70633-4803 |
| VISU SEWER INC                                     | W230N48557 BETKER RD       |                  | PEWAUKEE     | WI    | 53072      |
| W.E. O'NEIL CONSTRUCTION CO.                       | 1245 W WASHINGTON BLVD     |                  | CHICAGO      | IL    | 60607-1929 |
| WADSWORTH GOLF CONSTRUCTION COMPANY OF THE MIDWEST | 13941 S VAN DYKE RD        |                  | PLAINFIELD   | IL    | 60544-3520 |
| WALTERS MORGAN CONSTRUCTION INC                    | 5961 CORPORATE DR          |                  | MANHATTAN    | KS    | 66503-9675 |

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| Contractor Name                            | Street Address               | Street Address 2 | City             | State | Zip Code   |
|--|------------------------------|------------------|------------------|-------|------------|
| WARD ELECTRIC COMPANY INC.                 | 9586 E I25 FRONTAGE RD STE B |                  | LONGMONT         | MO    | 80504-9458 |
| WARNING LITES OF SOUTHERN ILLINOIS LLC     | 9441 LEBANON RD              |                  | EAST SAINT LOUIS | IL    | 62203-2213 |
| WARREN SYSTEMS INC                         | 3038 ESSEX DR                |                  | LAPEER           | MI    | 48446-2580 |
| WASSERMAN CONSTRUCTION COMPANY LLC         | PO BOX 32646                 |                  | KNOXVILLE        | TN    | 37930-2646 |
| WATSON ELECTRIC INC                        | 318 N 8TH ST                 |                  | SALINA           | KS    | 67401-2312 |
| WATTS ELECTRIC COMPANY                     | 13351 DOVERS ST              |                  | WAVERLY          | NE    | 68462-2516 |
| WEIGEL CONSTRUCTION INC                    | 19015 MADISON ST STE A       |                  | SPRING HILL      | KS    | 66083-7573 |
| WEISHAAR CONTRACTING LLC                   | 105 BLUFF DR                 |                  | BELLEVILLE       | IL    | 62223-1201 |
| WEST POINT ROOFING LLC                     | 7346 S ALTON WAY STE 10-I    |                  | CENTENNIAL       | CO    | 80112-2327 |
| WESTERN OILFIELDS SUPPLY COMPANY           | PO BOX 2248                  |                  | BAKERSFIELD      | CA    | 93303-2248 |
| WHEATLAND CONTRACTING LLC                  | 6204 246TH RD                |                  | EFFINGHAM        | KS    | 66023-5151 |
| WHITE CASTLE ROOFING & CONTRACTING INC     | PO BOX 22405                 |                  | LINCOLN          | NE    | 68542-2405 |
| WHITING SYSTEMS INC                        | 9000 HIGHWAY 5 N             |                  | ALEXANDER        | AR    | 72002-8526 |
| WILLIAM CHARLES CONSTRUCTION COMPANY LLC   | 833 FEATHERSTONE RD          |                  | ROCKFORD         | IL    | 61107-6301 |
| WILLIAM E. GROVES CONSTRUCTION LLC         | 3135 GRAPEVINE RD            |                  | MADISONVILLE     | KY    | 42431-9308 |
| WILLIAM G CURTH INC                        | PO BOX 3463                  |                  | SHAWNEE          | KS    | 66203-0463 |
| WILLIAMS ELECTRIC CO INC                   | 695 DENTON BLVD NW           |                  | FT WALTON BCH    | FL    | 32547-2150 |
| WILLIAMS ERECTION COMPANY INC              | 1285 HAWTHORNE AVE SE        |                  | SMYRNA           | GA    | 30080-2133 |
| WILLOUGHBY CONSTRUCTION AND CONSULTING LLC | 12006 MARGARET DR            |                  | HAGERSTOWN       | MD    | 21742-4223 |
| WILSONS POOLS PLUS INC                     | 843 SCOTT TROY RD            |                  | LEBANON          | IL    | 62254-1911 |
| WINDURA III INC                            | 11860 W 91ST ST              |                  | OVERLAND PARK    | KS    | 66214-1716 |

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**Construction Transient Employer Listing**

| Contractor Name  | Street Address       | Street Address 2 | City          | State | Zip Code   |
|--|----------------------|------------------|---------------|-------|------------|
| WINGER CONTRACTING COMPANY                                   | PO BOX 637           |                  | OTTUMWA       | IA    | 52501-0637 |
| WOLF CONSTRUCTION INC  | 5630 SW RANDOLPH AVE |                  | TOPEKA        | KS    | 66609-1158 |
| WOOD GROUP PRATT AND WHITNEY INDUSTRIAL TURBINE SERVICES LLC | 1460 BLUE HILLS AVE  |                  | BLOOMFIELD    | CT    | 06002-1348 |
| WORLDWIDE TURBINES LLC                                       | 6770 E ROGERS CIR    |                  | BOCA RATON    | FL    | 33487-2649 |
| WR NEWMAN & ASSOCIATES INC                                   | 2854 LOGAN ST        |                  | NASHVILLE     | TN    | 37211-2409 |
| XL INDUSTRIAL SERVICES INC                                   | 1920 N 400 W         |                  | LA PORTE      | IN    | 46350-2131 |
| ZEAMERS WELDING LLC  | 2772 BLAKE RD E      |                  | DE PERE       | WI    | 54115-8720 |
| ZEFCO INC  | PO BOX 1387          |                  | ANDERSON      | SC    | 29622-1387 |
| ZERNCO INC   | 2800 N REGENCY PARK  |                  | WICHITA       | KS    | 67226-4635 |
| ZIMMERMAN CONSTRUCTION COMPANY INC                           | 12509 HEMLOCK ST     |                  | OVERLAND PARK | KS    | 66213-1453 |

The Secretary of State is required by sections 347.141 and 359.481, RSMo, to publish dissolutions of limited liability companies and limited partnerships. The content requirements for the one-time publishing of these notices are prescribed by statute. This listing is published pursuant to these statutes. We request that documents submitted for publication in this section be submitted in camera ready 8 1/2" x 11" manuscript by email to adrules.dissolutions@sos.mo.gov.

**NOTICE OF WINDING UP TO ALL CREDITORS AND CLAIMANTS OF WHALEY'S FOCUS ON MOTHER AND CHILD, LLC**

On March 14, 2025, Whaley's Focus on Mother and Child, LLC a Missouri limited liability company (hereinafter "Company"), filed its Notice of Winding Up for Limited Liability Company with the Missouri Secretary of State. Any claims against the Company should be mailed to:

Stacy Welling  
7014 Spring Park Dr.  
Jefferson City, MO 65109

Each claim must include the following information:

- 1) the name, address, and telephone number of the claimant;
- 2) the amount of the claim;
- 3) the date on which the claim arose;
- 4) a brief description of the nature of the claim; and
- 5) any documentation in support of the claim.

All claims against the Company will be barred unless a proceeding to enforce the claim is commenced within three (3) years after the publication of this notice.

**NOTICE OF DISSOLUTION TO ALL CREDITORS OF AND CLAIMS AGAINST BENT OAKS ASSOCIATES**

On October 1, 2024, Bent Oaks Associates, a Missouri general partnership, entered into a Partnership Dissolution Agreement, dissolving the general partnership. You are hereby notified that if you believe you have a claim against Bent Oaks Associates, you must submit a summary in writing of the circumstances surrounding your claim to:

Levy Craig Law Firm  
4520 Main Street, Suite 400  
Kansas City, MO 64111

The summary of your claim must include the following information:

- 1) The name, address, and telephone number of the claimant;
- 2) The amount of the claim;
- 3) The date on which the event on which the claim is based occurred; and
- 4) A brief description of the nature of the debt or the basis for the claim.

All claims against Bent Oaks Associates will be barred unless the proceeding to enforce the claim is commenced within three (3) years after the publication of this Notice.

**NOTICE OF WINDING UP OF TO ALL CREDITORS AND CLAIMANTS AGAINST ECO CLEANING SYSTEMS, LLC**

On March 24, 2025, Eco Cleaning Systems, LLC, a Missouri limited liability company, filed its Notice of Winding Up for a limited liability company with the Missouri Secretary of State. All persons with claims against the limited liability company should present them immediately in writing to:

Eco Cleaning Systems, LLC  
5620 S Timber Ct  
Springfield, MO 65804

Claims must include:

- 1) The name, address, and telephone number of the claimant;
- 2) The total amount of the claim;
- 3) The date on which the claim arose;
- 4) The description of the basis for the claim; and
- 5) Any copies of documentation supporting the claim.

All claims against the limited liability company will be barred unless a proceeding to enforce the claim is commenced within three (3) years after the publication of this notice.

**NOTICE OF WINDING UP TO ALL CREDITORS AND CLAIMANTS AGAINST THOUSAND HILLS BEEF COMPANY, LLC**

On March 28, 2025, Thousand Hills Beef Company, LLC, a Missouri limited liability company ("Company"), filed its Notice of Winding Up for Limited liability Company with the Missouri Secretary of State. Any claims against Company must be sent to Company at the following address:

Thousand Hills Beef Company, LLC  
Attn: Joe A. Cates  
3301 W. Cambridge Rd.  
Belton, MO 64012

Each claim must include the following information:

- 1) Name, address and telephone number of the claimant.
- 2) Amount of the claim.
- 3) Date on which the event on which the claim is based occurred.
- 4) Basis for the claim.
- 5) Documentation supporting the claim.

All claims against the Company will be barred unless the proceeding to enforce the claim is commenced within three (3) years after the publication of this notice.

**NOTICE OF WINDING UP TO ALL CREDITORS OF AND CLAIMANTS AGAINST G & G WELDING, LLC**

G & G Welding, LLC, a Missouri limited liability company, filed its Notice of Winding Up for a Limited Liability Company with the Missouri Secretary of State on April 1, 2025. Any and all claims against G & G Welding, LLC may be sent to:

Steven P. Kuenzel  
PO Box 228  
Washington, MO 63090

Each claim should include the following information:

- 1) The name, address and telephone number of the claimant;
- 2) The amount of the claim;
- 3) The basis of the claim;
- 4) The date(s) on which the event(s) on which the claim is based occurred; and
- 5) Any documentation related to the claim.

Any and all claims against G & G Welding, LLC will be barred unless a proceeding to enforce such claim is commenced within three (3) years after the date this notice is published.

This cumulative table gives you the latest status of rules. It contains citations of rulemakings adopted or proposed after deadline for the monthly Update Service to the *Code of State Regulations*. Citations are to volume and page number in the *Missouri Register*, except for material in this issue. The first number in the table cite refers to the volume number or the publication year – 49 (2024) and 50 (2025). MoReg refers to *Missouri Register* and the numbers refer to a specific *Register* page, R indicates a rescission, W indicates a withdrawal, S indicates a statement of actual cost, T indicates an order terminating a rule, N.A. indicates not applicable, RAN indicates a rule action notice, RUC indicates a rule under consideration, and F indicates future effective date.

| RULE NUMBER   | AGENCY  | EMERGENCY      | PROPOSED      | ORDER        | IN ADDITION   |
|---|---|----------------|---------------|--------------|---------------|
| <b>OFFICE OF ADMINISTRATION</b>                                 |   |                |               |              |               |
| 1CSR 10   | State Officials' Salary Compensation Schedule   |                |               |              | 47 MoReg 1457 |
| <b>DEPARTMENT OF AGRICULTURE</b>                                |   |                |               |              |               |
| 2CSR 30-1.020   | Animal Health                                   | 50 MoReg 333   | 50 MoReg 364  |              |               |
| 2CSR 30-10.010  | Animal Health                                   | 50 MoReg 336   | 50 MoReg 367  |              |               |
| 2CSR 80-2.001   | State Milk Board                                | 49 MoReg 1571  | 50 MoReg 381  |              |               |
| 2CSR 80-2.002   | State Milk Board                                | 49 MoReg 1571  | 50 MoReg 381  |              |               |
| 2CSR 80-2.004   | State Milk Board                                | 49 MoReg 1572  | 50 MoReg 381  |              |               |
| 2CSR 80-2.005   | State Milk Board                                | 50 MoReg 532   |               |              |               |
| 2CSR 80-5.010   | State Milk Board                                | 49 MoReg 1493  | 50 MoReg 381  |              |               |
| 2CSR 90-30.040  | Weights, Measures and Consumer Protection       | 49 MoReg 1441  | 50 MoReg 382  |              |               |
| 2CSR 90-60.020  | Weights, Measures and Consumer Protection       | 50 MoReg 291   |               |              |               |
| 2CSR 90-60.050  | Weights, Measures and Consumer Protection       | 50 MoReg 292   |               |              |               |
| 2CSR 90-61.070  | Weights, Measures and Consumer Protection       | 50 MoReg 292   |               |              |               |
| 2CSR 90-61.080  | Weights, Measures and Consumer Protection       | 50 MoReg 293   |               |              |               |
| 2CSR 90-65.040  | Weights, Measures and Consumer Protection       | 50 MoReg 293   |               |              |               |
| <b>DEPARTMENT OF CONSERVATION</b>                               |   |                |               |              |               |
| 3CSR 10-4.135   | Conservation Commission                         | 50 MoReg 294   |               |              |               |
| 3CSR 10-4.140   | Conservation Commission                         | 50 MoReg 294   |               |              |               |
| 3CSR 10-5.205   | Conservation Commission                         | 50 MoReg 414   |               |              |               |
| 3CSR 10-5.560   | Conservation Commission                         |                |               |              | 50 MoReg 121  |
| 3CSR 10-5.710   | Conservation Commission                         | 49 MoReg 1493  | 50 MoReg 109  |              |               |
| 3CSR 10-6.415   | Conservation Commission                         | 49 MoReg 1495  | 50 MoReg 109  |              |               |
| 3CSR 10-6.535   | Conservation Commission                         | 49 MoReg 1495  | 50 MoReg 109  |              |               |
| 3CSR 10-6.550   | Conservation Commission                         | 49 MoReg 1496  | 50 MoReg 109  |              |               |
| 3CSR 10-7.410   | Conservation Commission                         | 49 MoReg 1496  | 50 MoReg 110  |              |               |
| 3CSR 10-7.412   | Conservation Commission                         | 49 MoReg 1496  | 50 MoReg 110  |              |               |
| 3CSR 10-7.431   | Conservation Commission                         | 50 MoReg 295   |               |              |               |
| 3CSR 10-7.450   | Conservation Commission                         | 49 MoReg 1497  | 50 MoReg 110  |              |               |
| 3CSR 10-7.455   | Conservation Commission                         |                |               |              | 50 MoReg 110  |
| 3CSR 10-7.700   | Conservation Commission                         | 50 MoReg 415   |               |              |               |
| 3CSR 10-7.705   | Conservation Commission                         | 49 MoReg 1497  | 50 MoReg 111  |              |               |
| 3CSR 10-7.710   | Conservation Commission                         | 49 MoReg 1498  | 50 MoReg 111  |              |               |
| 3CSR 10-7.900   | Conservation Commission                         | 49 MoReg 793   | 49 MoReg 1305 |              |               |
| 3CSR 10-9.565   | Conservation Commission                         | 49 MoReg 1500  | 50 MoReg 111  |              |               |
| 3CSR 10-11.115  | Conservation Commission                         | 49 MoReg 1502  | 50 MoReg 112  |              |               |
| 3CSR 10-11.120  | Conservation Commission                         | 50 MoReg 416   |               |              |               |
| 3CSR 10-11.130  | Conservation Commission                         | 50 MoReg 416   |               |              |               |
| 3CSR 10-11.135  | Conservation Commission                         | 50 MoReg 417   |               |              |               |
| 3CSR 10-11.180  | Conservation Commission                         | 49 MoReg 1502  | 50 MoReg 112  |              |               |
|   |   | 50 MoReg 417   |               |              |               |
| 3CSR 10-11.186  | Conservation Commission                         | 49 MoReg 1503  | 50 MoReg 112  |              |               |
| 3CSR 10-11.205  | Conservation Commission                         | 49 MoReg 1504  | 50 MoReg 112  |              |               |
|   |   | 50 MoReg 418   |               |              |               |
| 3CSR 10-12.109  | Conservation Commission                         | 50 MoReg 418   |               |              |               |
| 3CSR 10-12.110  | Conservation Commission                         | 49 MoReg 1504  | 50 MoReg 112  |              |               |
|   |   | 50 MoReg 419   |               |              |               |
| 3CSR 10-12.115  | Conservation Commission                         | 50 MoReg 419   |               |              |               |
| 3CSR 10-12.125  | Conservation Commission                         | 50 MoReg 420   |               |              |               |
| 3CSR 10-12.130  | Conservation Commission                         | 50 MoReg 15    | 50 MoReg 440  |              |               |
| 3CSR 10-12.140  | Conservation Commission                         | 50 MoReg 420   |               |              |               |
| 3CSR 10-12.145  | Conservation Commission                         | 50 MoReg 421   |               |              |               |
| <b>DEPARTMENT OF ECONOMIC DEVELOPMENT</b>                       |   |                |               |              |               |
| <b>DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION</b>         |   |                |               |              |               |
| 5CSR 20-400.440   | Division of Learning Services                   | 50 MoReg 532   |               |              |               |
| 5CSR 20-400.500   | Division of Learning Services                   | 50 MoReg 72    |               |              |               |
| 5CSR 20-400.530   | Division of Learning Services                   | 50 MoReg 74    |               |              |               |
| 5CSR 20-400.540   | Division of Learning Services                   | 50 MoReg 74    |               |              |               |
| 5CSR 20-400.550   | Division of Learning Services                   | 50 MoReg 75    |               |              |               |
| 5CSR 25-100.350   | Office of Childhood                             | 50 MoReg 15    |               |              |               |
| 5CSR 25-200.095   | Office of Childhood                             | 50 MoReg 277   | 50 MoReg 295  |              |               |
| <b>DEPARTMENT OF HIGHER EDUCATION AND WORKFORCE DEVELOPMENT</b> |   |                |               |              |               |
| 6CSR 10-10.010  | Commissioner of Education                       | 49 MoReg 1891R | 50 MoReg 440R |              |               |
|   |   | 49 MoReg 1891  | 50 MoReg 440  |              |               |
| <b>MISSOURI DEPARTMENT OF TRANSPORTATION</b>                    |   |                |               |              |               |
| 7CSR 10-4.020   | Missouri Highways and Transportation Commission | 49 MoReg 1699  | 49 MoReg 1704 | 50 MoReg 440 |               |
| 7CSR 10-15.010  | Missouri Highways and Transportation Commission | 50 MoReg 76    |               |              |               |
| 7CSR 60-2.010   | Highway Safety and Traffic Division             | 50 MoReg 65    | 50 MoReg 80   |              |               |
| 7CSR 60-2.030   | Highway Safety and Traffic Division             | 50 MoReg 67    | 50 MoReg 81   |              |               |

| RULE NUMBER   | AGENCY                                  | EMERGENCY     | PROPOSED      | ORDER        | IN ADDITION |
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| <b>DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS</b> |   |               |               |              |             |
| <b>DEPARTMENT OF MENTAL HEALTH</b>                  |   |               |               |              |             |
| <b>DEPARTMENT OF NATURAL RESOURCES</b>              |   |               |               |              |             |
| 10 CSR 10-6.070                                     | Director's Office                       |               | 50 MoReg 145  |              |             |
| 10 CSR 10-6.075                                     | Director's Office                       |               | 50 MoReg 149  |              |             |
| 10 CSR 10-6.080                                     | Director's Office                       |               | 50 MoReg 150  |              |             |
| 10 CSR 10-6.261                                     | Director's Office                       |               | 49 MoReg 1572 | 50 MoReg 477 |             |
| 10 CSR 25-6.263                                     | Hazardous Waste Management Commission   |               | 50 MoReg 16   |              |             |
| 10 CSR 25-8.124                                     | Hazardous Waste Management Commission   |               | 50 MoReg 20   |              |             |
| 10 CSR 25-13.010                                    | Hazardous Waste Management Commission   |               | 50 MoReg 27R  |              |             |
| <b>DEPARTMENT OF PUBLIC SAFETY</b>                  |   |               |               |              |             |
| 11 CSR 40-2.025                                     | Division of Fire Safety                 |               | 49 MoReg 1505 | 50 MoReg 382 |             |
| 11 CSR 40-6.020                                     | Division of Fire Safety                 |               | 49 MoReg 1505 | 50 MoReg 382 |             |
| 11 CSR 40-6.025                                     | Division of Fire Safety                 |               | 49 MoReg 1506 | 50 MoReg 382 |             |
| 11 CSR 40-6.031                                     | Division of Fire Safety                 |               | 49 MoReg 1506 | 50 MoReg 382 |             |
| 11 CSR 40-6.033                                     | Division of Fire Safety                 |               | 49 MoReg 1509 | 50 MoReg 382 |             |
| 11 CSR 40-6.060                                     | Division of Fire Safety                 |               | 49 MoReg 1509 | 50 MoReg 383 |             |
| 11 CSR 40-6.065                                     | Division of Fire Safety                 |               | 49 MoReg 1512 | 50 MoReg 383 |             |
| 11 CSR 45-1.090                                     | Missouri Gaming Commission              |               | 50 MoReg 82   |              |             |
| 11 CSR 45-5.080                                     | Missouri Gaming Commission              |               | 50 MoReg 84   |              |             |
| 11 CSR 45-5.190                                     | Missouri Gaming Commission              |               | 50 MoReg 85   |              |             |
| 11 CSR 45-5.192                                     | Missouri Gaming Commission              |               | 50 MoReg 86   |              |             |
| 11 CSR 45-5.193                                     | Missouri Gaming Commission              |               | 50 MoReg 87   |              |             |
| 11 CSR 45-5.194                                     | Missouri Gaming Commission              |               | 50 MoReg 88   |              |             |
| 11 CSR 45-5.200                                     | Missouri Gaming Commission              |               | 50 MoReg 89   |              |             |
| 11 CSR 45-5.210                                     | Missouri Gaming Commission              |               | 50 MoReg 94   |              |             |
| 11 CSR 45-5.220                                     | Missouri Gaming Commission              |               | 50 MoReg 96   |              |             |
| 11 CSR 45-5.225                                     | Missouri Gaming Commission              |               | 50 MoReg 97   |              |             |
| 11 CSR 45-5.230                                     | Missouri Gaming Commission              |               | 50 MoReg 98   |              |             |
| 11 CSR 45-5.235                                     | Missouri Gaming Commission              |               | 50 MoReg 99   |              |             |
| 11 CSR 45-5.270                                     | Missouri Gaming Commission              |               | 50 MoReg 100  |              |             |
| 11 CSR 45-5.300                                     | Missouri Gaming Commission              |               | 50 MoReg 100  |              |             |
| 11 CSR 45-9.102                                     | Missouri Gaming Commission              |               | 50 MoReg 101  |              |             |
| 11 CSR 45-9.105                                     | Missouri Gaming Commission              |               | 50 MoReg 104  |              |             |
| 11 CSR 45-9.108                                     | Missouri Gaming Commission              |               | 50 MoReg 104  |              |             |
| 11 CSR 45-9.109                                     | Missouri Gaming Commission              |               | 50 MoReg 104  |              |             |
| 11 CSR 45-9.118                                     | Missouri Gaming Commission              |               | 50 MoReg 105  |              |             |
| 11 CSR 45-9.121                                     | Missouri Gaming Commission              |               | 50 MoReg 105  |              |             |
| 11 CSR 45-20.020                                    | Missouri Gaming Commission              |               | 50 MoReg 421  |              |             |
| 11 CSR 45-20.030                                    | Missouri Gaming Commission              |               | 50 MoReg 423  |              |             |
| 11 CSR 45-20.040                                    | Missouri Gaming Commission              |               | 50 MoReg 424  |              |             |
| 11 CSR 45-20.050                                    | Missouri Gaming Commission              |               | 50 MoReg 428  |              |             |
| 11 CSR 45-20.060                                    | Missouri Gaming Commission              |               | 50 MoReg 428  |              |             |
| 11 CSR 45-20.070                                    | Missouri Gaming Commission              |               | 50 MoReg 429  |              |             |
| 11 CSR 45-20.080                                    | Missouri Gaming Commission              |               | 50 MoReg 430  |              |             |
| 11 CSR 45-20.090                                    | Missouri Gaming Commission              |               | 50 MoReg 431  |              |             |
| 11 CSR 45-20.100                                    | Missouri Gaming Commission              |               | 50 MoReg 435  |              |             |
| 11 CSR 45-20.110                                    | Missouri Gaming Commission              |               | 50 MoReg 436  |              |             |
| 11 CSR 45-20.120                                    | Missouri Gaming Commission              |               | 50 MoReg 438  |              |             |
| 11 CSR 45-20.130                                    | Missouri Gaming Commission              |               | 50 MoReg 439  |              |             |
| 11 CSR 70-2.120                                     | Division of Alcohol and Tobacco Control |               | 49 MoReg 1444 | 50 MoReg 383 |             |
| 11 CSR 70-2.130                                     | Division of Alcohol and Tobacco Control |               | 49 MoReg 1575 |              |             |
| 11 CSR 85-1.060                                     | Veterans Affairs                        |               | 50 MoReg 150R |              |             |
| <b>DEPARTMENT OF REVENUE</b>                        |   |               |               |              |             |
| 12 CSR 10-2.155                                     | Director of Revenue                     |               | 49 MoReg 887  |              |             |
| 12 CSR 10-2.436                                     | Director of Revenue                     |               | This Issue    |              |             |
| 12 CSR 10-24.060                                    | Director of Revenue                     |               | 49 MoReg 888  |              |             |
| 12 CSR 10-24.200                                    | Director of Revenue                     |               | This Issue    |              |             |
| 12 CSR 10-24.420                                    | Director of Revenue                     |               | 49 MoReg 888  |              |             |
| 12 CSR 10-24.440                                    | Director of Revenue                     |               | 49 MoReg 637R |              |             |
| 12 CSR 10-26.030                                    | Director of Revenue                     |               | This Issue    |              |             |
| 12 CSR 10-26.231                                    | Director of Revenue                     | 50 MoReg 336  | 50 MoReg 367  |              |             |
| 12 CSR 10-41.010                                    | Director of Revenue                     | 50 MoReg 69   | 50 MoReg 105  | This Issue   |             |
| <b>DEPARTMENT OF SOCIAL SERVICES</b>                |   |               |               |              |             |
| 13 CSR 35-71.015                                    | Children's Division                     |               | 50 MoReg 27   | This Issue   |             |
| 13 CSR 35-71.045                                    | Children's Division                     |               | 49 MoReg 1580 | 50 MoReg 385 |             |
| 13 CSR 70-4.080                                     | MO HealthNet Division                   |               | 49 MoReg 1512 | 50 MoReg 385 |             |
| 13 CSR 70-10.020                                    | MO HealthNet Division                   | 50 MoReg 337  | 50 MoReg 367  |              |             |
| 13 CSR 70-15.010                                    | MO HealthNet Division                   | 49 MoReg 1329 | 49 MoReg 1804 | 50 MoReg 477 |             |
| 13 CSR 70-15.160                                    | MO HealthNet Division                   | 49 MoReg 1760 | 49 MoReg 1809 | 50 MoReg 543 |             |
| 13 CSR 70-20.030                                    | MO HealthNet Division                   |               | 49 MoReg 1444 | 50 MoReg 385 |             |
| 13 CSR 70-20.045                                    | MO HealthNet Division                   |               | 49 MoReg 1816 | 50 MoReg 477 |             |
| 13 CSR 70-20.047                                    | MO HealthNet Division                   |               | 49 MoReg 1513 | 50 MoReg 386 |             |
| 13 CSR 70-20.075                                    | MO HealthNet Division                   | 50 MoReg 5    | 50 MoReg 29   | This Issue   |             |
| 13 CSR 70-20.200                                    | MO HealthNet Division                   |               | 50 MoReg 151  |              |             |
| 13 CSR 70-20.250                                    | MO HealthNet Division                   |               | 49 MoReg 1816 | 50 MoReg 477 |             |
| 13 CSR 70-20.300                                    | MO HealthNet Division                   |               | 49 MoReg 1817 | 50 MoReg 478 |             |
| 13 CSR 70-20.310                                    | MO HealthNet Division                   |               | 50 MoReg 153  |              |             |

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| 13 CSR 70-25.140                                | MO HealthNet Division   |                | 50 MoReg 534   |               |             |
| 13 CSR 70-25.160                                | MO HealthNet Division   | 49 MoReg 1489  | 49 MoReg 1513  | 50 MoReg 386  |             |
| 13 CSR 70-94.020                                | MO HealthNet Division   | 50 MoReg 465   | 50 MoReg 471   |               |             |
| 13 CSR 70-98.015                                | MO HealthNet Division   |                | 49 MoReg 1444  | 50 MoReg 386  |             |
| <b>ELECTED OFFICIALS</b>                        |   |                |                |               |             |
| 15 CSR 30-51.169                                | Secretary of State  | 49 MoReg 1768  | 49 MoReg 1818  |               |             |
| 15 CSR 30-51.170                                | Secretary of State  | 49 MoReg 1768  | 49 MoReg 1819  |               |             |
| 15 CSR 30-51.172                                | Secretary of State  | 49 MoReg 1769  | 49 MoReg 1820  |               |             |
| 15 CSR 30-51.174                                | Secretary of State  | 49 MoReg 1770  | 49 MoReg 1821  |               |             |
| 15 CSR 50-5.020                                 | Treasurer   |                | 49 MoReg 1893  | 50 MoReg 545  |             |
| 15 CSR 50-5.030                                 | Treasurer   |                | 49 MoReg 1894  | 50 MoReg 545  |             |
| 15 CSR 50-5.050                                 | Treasurer   |                | 49 MoReg 1895  | 50 MoReg 545  |             |
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| 16 CSR 10-1.040                                 | The Public School Retirement System of Missouri   |                | 49 MoReg 1708  | 50 MoReg 441  |             |
| 16 CSR 10-3.010                                 | The Public School Retirement System of Missouri   |                | 49 MoReg 1708  | 50 MoReg 441  |             |
| 16 CSR 10-5.010                                 | The Public School Retirement System of Missouri   |                | 49 MoReg 1710  | 50 MoReg 441  |             |
| 16 CSR 10-5.020                                 | The Public School Retirement System of Missouri   |                | 49 MoReg 1712  | 50 MoReg 441  |             |
| 16 CSR 10-6.020                                 | The Public School Retirement System of Missouri   |                | 49 MoReg 1712  | 50 MoReg 442  |             |
| 16 CSR 10-6.060                                 | The Public School Retirement System of Missouri   |                | 49 MoReg 1714  | 50 MoReg 442  |             |
| 16 CSR 10-6.070                                 | The Public School Retirement System of Missouri   |                | 49 MoReg 1714  | 50 MoReg 442  |             |
| <b>DEPARTMENT OF HEALTH AND SENIOR SERVICES</b> |   |                |                |               |             |
| 19 CSR 10-4.060                                 | Office of the Director  |                | 50 MoReg 154   |               |             |
| 19 CSR 10-10.030                                | Office of the Director  |                | 49 MoReg 1715  | 50 MoReg 387  |             |
| 19 CSR 20-8.030                                 | Division of Community and Public Health   |                | 49 MoReg 1583R | 50 MoReg 387R |             |
|   |   |                | 49 MoReg 1583  | 50 MoReg 387  |             |
| 19 CSR 30-1.002                                 | Division of Regulation and Licensure  | 49 MoReg 1557  | 49 MoReg 1593  | 50 MoReg 387  |             |
| 19 CSR 30-30.062                                | Division of Regulation and Licensure  | 50 MoReg 525   | 50 MoReg 538   |               |             |
| 19 CSR 30-110.010                               | Division of Regulation and Licensure  |                | 50 MoReg 159   |               |             |
| 19 CSR 30-110.020                               | Division of Regulation and Licensure  |                | 50 MoReg 160   |               |             |
| 19 CSR 30-110.030                               | Division of Regulation and Licensure  |                | 50 MoReg 167   |               |             |
| 19 CSR 40-10.020                                | Division of Maternal, Child and Family Health   |                | 50 MoReg 185   |               |             |
| 19 CSR 60-50                                    | Missouri Health Facilities Review Committee   |                |                | 50 MoReg 443  |             |
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| 20 CSR  | Construction Claims Binding Arbitration Cap   |                |                | 50 MoReg 309  |             |
| 20 CSR  | Non-Economic Damages in Medical Malpractice Cap   |                |                | 50 MoReg 309  |             |
| 20 CSR  | Sovereign Immunity Limits   |                |                | 49 MoReg 1905 |             |
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| 20 CSR 2030-16.020                              | Missouri Board For Architects, Professional Engineers, Professional Land Surveyors, and Professional Landscape Architects |                | 50 MoReg 296   |               |             |
| 20 CSR 2030-16.050                              | Missouri Board For Architects, Professional Engineers, Professional Land Surveyors, and Professional Landscape Architects |                | 50 MoReg 297   |               |             |
| 20 CSR 2030-17.070                              | Missouri Board For Architects, Professional Engineers, Professional Land Surveyors, and Professional Landscape Architects |                | 50 MoReg 298   |               |             |
| 20 CSR 2030-17.080                              | Missouri Board For Architects, Professional Engineers, Professional Land Surveyors, and Professional Landscape Architects |                | 50 MoReg 298   |               |             |
| 20 CSR 2040-5.070                               | Office of Athletics   | 49 MoReg 1517  | 50 MoReg 387   |               |             |
| 20 CSR 2063-2.015                               | Behavior Analyst Advisory Board   | 49 MoReg 1607  | 50 MoReg 388   |               |             |
| 20 CSR 2110-2.010                               | Missouri Dental Board   | 49 MoReg 1821  | 50 MoReg 388   |               |             |
| 20 CSR 2110-2.050                               | Missouri Dental Board   | 49 MoReg 1822  | 50 MoReg 388   |               |             |
| 20 CSR 2110-2.170                               | Missouri Dental Board   | 49 MoReg 1822  | 50 MoReg 388   |               |             |
| 20 CSR 2110-2.240                               | Missouri Dental Board   | This Issue     |                |               |             |
| 20 CSR 2145-2.090                               | Missouri Board of Geologist Registration  | 49 MoReg 1607  | 50 MoReg 388   |               |             |
| 20 CSR 2150-4.201                               | State Board of Registration for the Healing Arts  | 50 MoReg 193   |                |               |             |
| 20 CSR 2150-7.135                               | State Board of Registration for the Healing Arts  | This Issue     |                |               |             |
| 20 CSR 2232-2.030                               | Missouri State Committee of Inperpreters  | 49 MoReg 1608  | 50 MoReg 389   |               |             |
| 20 CSR 2235-1.060                               | State Committee of Psychologists  | 49 MoReg 1608  | 50 MoReg 389   |               |             |
| 20 CSR 2270-4.060                               | Missouri Veterinary Medical Board   | 49 MoReg 1608  | 50 MoReg 389   |               |             |
| 20 CSR 4240-3.305                               | Public Service Commission   | 49 MoReg 1716R | 50 MoReg 478R  |               |             |
| 20 CSR 4240-3.600                               | Public Service Commission   | 49 MoReg 1716R | 50 MoReg 478R  |               |             |
| 20 CSR 4240-10.155                              | Public Service Commission   | 49 MoReg 1609  | 50 MoReg 478   |               |             |
| 20 CSR 4240-10.165                              | Public Service Commission   | 49 MoReg 1613  | 50 MoReg 483   |               |             |
| 20 CSR 4240-10.175                              | Public Service Commission   | 49 MoReg 1614  | 50 MoReg 484   |               |             |
| 20 CSR 4240-10.185                              | Public Service Commission   | 49 MoReg 1717  | 50 MoReg 486   |               |             |
| 20 CSR 4240-20.015                              | Public Service Commission   | 49 MoReg 1615R | 50 MoReg 489R  |               |             |
| 20 CSR 4240-20.017                              | Public Service Commission   | 49 MoReg 1615R | 50 MoReg 489R  |               |             |
| 20 CSR 4240-40.015                              | Public Service Commission   | 49 MoReg 1616R | 50 MoReg 489R  |               |             |
| 20 CSR 4240-40.016                              | Public Service Commission   | 49 MoReg 1616R | 50 MoReg 489R  |               |             |
| 20 CSR 4240-40.017                              | Public Service Commission   | 49 MoReg 1616R | 50 MoReg 489R  |               |             |
| 20 CSR 4240-40.020                              | Public Service Commission   | This Issue     |                |               |             |
| 20 CSR 4240-40.030                              | Public Service Commission   | This Issue     |                |               |             |
| 20 CSR 4240-40.080                              | Public Service Commission   | This Issue     |                |               |             |
| 20 CSR 4240-50.060                              | Public Service Commission   | 49 MoReg 1719  | 50 MoReg 490   |               |             |
| 20 CSR 4240-60.050                              | Public Service Commission   | 49 MoReg 1721  | 50 MoReg 493   |               |             |
| 20 CSR 4240-80.015                              | Public Service Commission   | 49 MoReg 1617R | 50 MoReg 496R  |               |             |

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| 20 CSR 4240-80.017                            | Public Service Commission |               | 49 MoReg 1617R | 50 MoReg 496R |             |
| <b>MISSOURI CONSOLIDATED HEALTH CARE PLAN</b> |                           |               |                |               |             |
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| 22 CSR 10-2.025                               | Health Care Plan          | 49 MoReg 1774 | 49 MoReg 1828  | 50 MoReg 496  |             |
| 22 CSR 10-2.046                               | Health Care Plan          | 49 MoReg 1775 | 49 MoReg 1828  | 50 MoReg 497  |             |
| 22 CSR 10-2.047                               | Health Care Plan          | 49 MoReg 1776 | 49 MoReg 1829  | 50 MoReg 497  |             |
| 22 CSR 10-2.053                               | Health Care Plan          | 49 MoReg 1777 | 49 MoReg 1829  | 50 MoReg 497  |             |
| 22 CSR 10-2.055                               | Health Care Plan          | 49 MoReg 1777 | 49 MoReg 1830  | 50 MoReg 497  |             |
| 22 CSR 10-2.075                               | Health Care Plan          | 49 MoReg 1783 | 49 MoReg 1836  | 50 MoReg 497  |             |
| 22 CSR 10-2.089                               | Health Care Plan          | 49 MoReg 1784 | 49 MoReg 1836  | 50 MoReg 498  |             |
| 22 CSR 10-2.090                               | Health Care Plan          | 49 MoReg 1785 | 49 MoReg 1837  | 50 MoReg 498  |             |
| 22 CSR 10-2.120                               | Health Care Plan          |               | 49 MoReg 1838  | 50 MoReg 498  |             |
| 22 CSR 10-2.140                               | Health Care Plan          | 49 MoReg 1786 | 49 MoReg 1838  | 50 MoReg 498  |             |
| 22 CSR 10-3.020                               | Health Care Plan          | 49 MoReg 1787 | 49 MoReg 1839  | 50 MoReg 498  |             |
| 22 CSR 10-3.055                               | Health Care Plan          | 49 MoReg 1789 | 49 MoReg 1841  | 50 MoReg 498  |             |
| 22 CSR 10-3.057                               | Health Care Plan          | 49 MoReg 1789 | 49 MoReg 1841  | 50 MoReg 499  |             |
| 22 CSR 10-3.058                               | Health Care Plan          | 49 MoReg 1795 | 49 MoReg 1847  | 50 MoReg 499  |             |
| 22 CSR 10-3.059                               | Health Care Plan          | 49 MoReg 1796 | 49 MoReg 1847  | 50 MoReg 499  |             |
| 22 CSR 10-3.075                               | Health Care Plan          | 49 MoReg 1796 | 49 MoReg 1847  | 50 MoReg 499  |             |
| 22 CSR 10-3.090                               | Health Care Plan          | 49 MoReg 1797 | 49 MoReg 1848  | 50 MoReg 499  |             |

MISSOURI DEPARTMENT OF THE NATIONAL GUARD

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| 2 CSR 30-10.010   | Inspection of Meat and Poultry.....   | .50 MoReg 336 .....  | Feb. 18, 2025 .....  | Aug. 16, 2025     |
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| 12 CSR 10-41.010  | Annual Adjusted Rate of Interest .....  | .50 MoReg 69 .....   | Jan. 1, 2025 .....   | June 29, 2025     |
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| 13 CSR 70-20.075  | 340B Drug Pricing Program.....  | .50 MoReg 5 .....    | Dec. 9, 2024 .....   | June 6, 2025      |
| 13 CSR 70-94.020  | Provider-Based Rural Health Clinic .....  | .50 MoReg 465 .....  | March 17, 2025 ..... | Sept. 12, 2025    |
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| 15 CSR 30-51.170  | Dishonest or Unethical Business Practices by Broker-Dealers and Agents .....                                  | .49 MoReg 1768 ..... | Nov. 6, 2024 .....   | May 4, 2025       |
| 15 CSR 30-51.172  | Dishonest or Unethical Business Practices by Investment Advisers and Investment Adviser Representatives ..... | .49 MoReg 1769 ..... | Nov. 6, 2024 .....   | May 4, 2025       |
| 15 CSR 30-51.174  | Fraudulent Practices of Investment Advisers and Investment Adviser Representatives .....                      | .49 MoReg 1770 ..... | Nov. 6, 2024 .....   | May 4, 2025       |
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| 22 CSR 10-2.020   | General Membership Provisions .....   | .49 MoReg 1771 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.025   | Rule for Participating Higher Education Entity Entry into the Missouri Consolidated Health Care Plan .....    | .49 MoReg 1774 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.046   | PPO 750 Plan Benefit Provisions and Covered Charges .....   | .49 MoReg 1775 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.047   | PPO 1250 Plan Benefit Provisions and Covered Charges .....  | .49 MoReg 1776 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.053   | Health Savings Account Plan Benefit Provisions and Covered Charges .....                                      | .49 MoReg 1777 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.055   | Medical Plan Benefit Provisions and Covered Charges .....   | .49 MoReg 1777 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.075   | Review and Appeals Procedure .....  | .49 MoReg 1783 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.089   | Pharmacy Employer Group Waiver Plan for Medicare Primary Members .....  | .49 MoReg 1784 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.090   | Pharmacy Benefit Summary .....  | .49 MoReg 1785 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-2.140   | Strive for Wellness® Health Center Provisions, Charges, and Services .....                                    | .49 MoReg 1786 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-3.020   | General Membership Provisions .....   | .49 MoReg 1787 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-3.055   | Health Savings Account Plan Benefit Provisions and Covered Charges .....                                      | .49 MoReg 1789 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-3.057   | Medical Plan Benefit Provisions and Covered Charges .....   | .49 MoReg 1789 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-3.058   | PPO 750 Plan Benefit Provisions and Covered Charges .....   | .49 MoReg 1795 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-3.059   | PPO 1250 Plan Benefit Provisions and Covered Charges .....  | .49 MoReg 1796 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-3.075   | Review and Appeals Procedure .....  | .49 MoReg 1796 ..... | Jan. 1, 2025 .....   | June 29, 2025     |
| 22 CSR 10-3.090   | Pharmacy Benefit Summary .....  | .49 MoReg 1797 ..... | Jan. 1, 2025 .....   | June 29, 2025     |

The Secretary of State shall publish all executive orders beginning January 1, 2003, pursuant to section 536.035.2, RSMo.

| ORDER       | SUBJECT MATTER   | FILED DATE        | PUBLICATION  |
|-------------|--|-------------------|--------------|
| <b>2025</b> |  |                   |              |
| 25-21       | Directs the Adjutant General to call into active service any state militia deemed necessary to support civilian authorities due to the severe weather beginning April 1, 2025  | April 2, 2025     | Next Issue   |
| 25-20       | Orders that the Director of the Missouri Department of Natural Resources is vested with authority to temporarily waive or suspend statutory or administrative rule or regulation to serve the interests of public health and safety in the aftermath of severe weather that began on March 14, 2025  | March 20, 2025    | This Issue   |
| 25-19       | Declares a State of Emergency and directs the Missouri State Emergency Operations Plan be activated due to forecasted severe storm systems beginning on March 14   | March 14, 2025    | 50 MoReg 531 |
| 25-18       | Orders all executive agencies to comply with the principle of equal protection and ensure all rules, policies, employment practices, and actions treat all persons equally. Executive agencies are prohibited from considering diversity, equity, and inclusion in their hiring decisions, and no state funds shall be utilized for activities that solely or primarily support diversity, equity, and inclusion initiatives | February 18, 2025 | 50 MoReg 413 |
| 25-17       | Declares a State of Emergency and activates the Missouri State Emergency Operations Plan due to forecasted severe winter storm systems and exempts hours of service requirements for vehicles transporting residential heating fuel until March 10, 2025   | February 10, 2025 | 50 MoReg 411 |
| 25-16       | Establishes the Governor's Workforce of the Future Challenge for the Missouri Department of Elementary and Secondary Education, with the Missouri Department of Education and Workforce Development, to improve existing career and technical education delivery systems   | January 28, 2025  | 50 MoReg 361 |
| 25-15       | Orders the Office of Childhood within the Missouri Department of Elementary and Secondary Education to improve the state regulatory environment for child care facilities and homes  | January 28, 2025  | 50 MoReg 360 |
| 25-14       | Establishes the Missouri School Funding Modernization Task Force to develop recommendations for potential state funding models for K-12 education  | January 28, 2025  | 50 MoReg 358 |
| 25-13       | Orders Executive Department directors and commissioners to solicit input from their respective agency stakeholders and establishes rulemaking requirements for state agencies  | January 23, 2025  | 50 MoReg 356 |
| 25-12       | Establishes a Code of Conduct for all employees of the Office of the Governor  | January 23, 2025  | 50 MoReg 354 |
| 25-11       | Designates members of his staff to have supervisory authority over departments, divisions, and agencies of state government  | January 23, 2025  | 50 MoReg 352 |
| 25-10       | Declares a State of Emergency and activates the Missouri State Emergency Operations Plan due to forecasted severe winter storm systems and exempts hours of service requirements for vehicles transporting products utilized by poultry and livestock producers in their farming and ranching operations until January 24, 2025  | January 17, 2025  | 50 MoReg 350 |
| 25-09       | Directs the Commissioner of Administration to ensure all flags of the United States and the State of Missouri are flown at full staff at all state buildings and grounds on January 20, 2025 for a period of 24 hours  | January 15, 2025  | 50 MoReg 290 |

| <b>ORDER</b> | <b>SUBJECT MATTER</b>   | <b>FILED DATE</b> | <b>PUBLICATION</b> |
|--------------|---|-------------------|--------------------|
| 25-08        | Declares a State of Emergency and activates the Missouri State Emergency Operations Plan and exempts hours of service requirements for vehicles transporting residential heating fuel until February 2, 2025  | January 13, 2025  | 50 MoReg 288       |
| 25-07        | Orders the Department of Corrections and the Missouri Parole Board to assemble a working group to develop recommendations to rulemaking for the parole process  | January 13, 2025  | 50 MoReg 287       |
| 25-06        | Orders the Director of the Department of Public Safety and the Superintendent of the Missouri State Highway Patrol to modify the Patrol's salary schedule by reducing the time of service required to reach the top salary tier from 15 years of service to 12 years of service   | January 13, 2025  | 50 MoReg 286       |
| 25-05        | Directs the Department of Public Safety in collaboration with the Missouri State Highway Patrol to include immigration status in the state's uniform crime reporting system and to facilitate the collection of such information across the state   | January 13, 2025  | 50 MoReg 285       |
| 25-04        | Directs the Director of the Department of Public Safety in collaboration with the Superintendent of the Missouri State Highway Patrol to establish and maintain a memorandum of understanding with the U.S. Department of Homeland Security and actively collaborate with federal agencies. The Superintendent of the Missouri State Highway Patrol shall designate members for training in federal immigration enforcement | January 13, 2025  | 50 MoReg 284       |
| 25-03        | Establishes the "Blue Shield Program" within the Department of Public Safety to recognize local governments committed to public safety within their community   | January 13, 2025  | 50 MoReg 282       |
| 25-02        | Establishes "Operation Relentless Pursuit," a coordinated law enforcement initiative  | January 13, 2025  | 50 MoReg 281       |
| 25-01        | Declares a State of Emergency and activates the Missouri State Emergency Operations Plan due to forecasted severe winter storm systems and exempts hours of service requirements for vehicles transporting residential heating fuel until January 13, 2025  | January 3, 2025   | 50 MoReg 279       |

**2024**

|       |  |                  |               |
|-------|--|------------------|---------------|
| 24-16 | Orders state offices to be closed at 12:00 p.m. on Tuesday, December 24, 2024  | December 9, 2024 | 50 MoReg 14   |
| 24-15 | Orders state offices to be closed on Friday, November 29, 2024   | November 7, 2024 | 49 MoReg 1890 |
| 24-14 | Declares a State of Emergency and directs the Missouri State Emergency Operations Plan be activated due to ongoing and forecasted severe storm systems   | November 5, 2024 | 49 MoReg 1889 |
| 24-13 | Declares a drought alert for 88 Missouri counties in accordance with the Missouri Drought Mitigation and Response Plan and orders the director of the Department of Natural Resources to activate and designate a chairperson for the Drought Assessment Committee | October 29, 2024 | 49 MoReg 1802 |
| 24-12 | Revokes the rescission of Executive Order 97-97  | October 24, 2024 | 49 MoReg 1801 |
| 24-11 | Rescinds 177 executive orders that are no longer necessary or applicable to the operations of the government   | October 23, 2024 | 49 MoReg 1799 |
| 24-10 | Directs the Department of Health and Senior Services to address foods containing unregulated psychoactive cannabis products and the Department of Public Safety Division of Alcohol and Tobacco to amend regulations on unregulated psychoactive cannabis products | August 1, 2024   | 49 MoReg 1343 |
| 24-09 | Orders executive branch state offices closed on Friday, July 5, 2024   | July 1, 2024     | 49 MoReg 1188 |
| 24-08 | Extends Executive Order 24-06 and the State of Emergency until July 31, 2024   | June 26, 2024    | 49 MoReg 1187 |

| ORDER | SUBJECT MATTER   | FILED DATE        | PUBLICATION  |
|-------|--|-------------------|--------------|
| 24-07 | Extends Executive Order 23-06 and the State of Emergency until June 30, 2024   | May 30, 2024      | 49 MoReg 954 |
| 24-06 | Declares a State of Emergency and directs the Missouri State Emergency Operations Plan be activated due to forecasted severe storm systems   | May 2, 2024       | 49 MoReg 847 |
| 24-05 | Extends Executive Order 23-05 to address drought-response efforts until September 1, 2024  | April 26, 2024    | 49 MoReg 792 |
| 24-04 | Designates members of his staff to have supervisory authority over departments, divisions and agencies of state government   | February 29, 2024 | 49 MoReg 447 |
| 24-03 | Declares a State of Emergency and declares Missouri will implement the Emergency Mutual Aid Compact (EMAC) agreement with the State of Texas to provide support with border operations | February 20, 2024 | 49 MoReg 446 |
| 24-02 | Declares a State of Emergency and directs the Missouri State Emergency Operations Plan be activated due to forecasted winter storm systems   | January 11, 2024  | 49 MoReg 270 |
| 24-01 | Orders the Dept. of Agriculture to establish rules regarding acquisitions of agricultural land by foreign businesses   | January 2, 2024   | 49 MoReg 136 |

The rule number and the MoReg publication date follow each entry to this index.

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